

```

chain nodes :
 10 11 12 17 30 31 34 35 36 39 40 41 42 43 44 45 46 47 48 49
ring nodes :
 1 2 3 4 5 6 7 8 9 18 19 20 21 22 23
ring/chain nodes :
 32 57
chain bonds :
 2-17 6-39 10-11 10-12 30-31 31-32 34-35 35-36 40-42 41-43 41-44 45-48 46-47
ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
 2-17 6-39 7-8 7-9 8-9 10-11 10-12 18-19 18-23 19-20 20-21 21-22 22-23 30-31 31-32
 34-35 35-36 40-42 41-43 41-44 45-48 46-47
normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
  containing 1 : 7 : 18 :

G1:[*1],[*2]
G2:C,O
G3:NO2,NH,NH2,N,[*3],[*4],[*5]
G4:Cl,Br,F,I,OH,SH,NH2,NO2,X,[*6],[*7],[*8],[*9]

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS
 12:CLASS 17:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 30:CLASS 31:CLASS
 32:CLASS 34:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:Atom 57:CLASS 58:Atom
Generic attributes :
 42:
Saturation : Saturated

```

Number of Carbon Atoms : less than 7  
43:  
Saturation : Saturated  
Number of Carbon Atoms : less than 7  
44:  
Saturation : Saturated  
Number of Carbon Atoms : less than 7  
45:  
Saturation : Saturated  
Number of Carbon Atoms : less than 7  
46:  
Saturation : Saturated  
Number of Carbon Atoms : less than 7

10/581,897 (amended)

=> ....Testing the current file.... screen

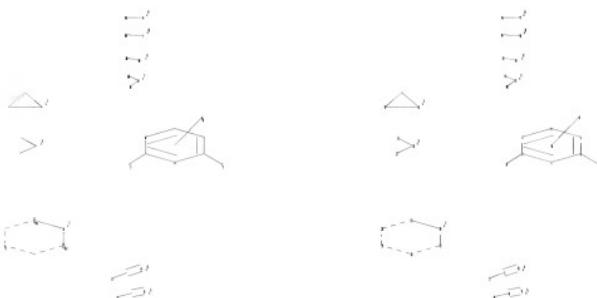
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10581897 (amd).str



chain nodes :  
10 11 12 17 30 31 34 35 36 39 40 41 42 43 44 45 46 47 48 49

ring nodes :  
 1 2 3 4 5 6 7 8 9 18 19 20 21 22 23  
 ring/chain nodes :  
 32  
 chain bonds :  
 2-17 6-39 10-11 10-12 30-31 31-32 34-35 35-36 40-42 41-43 41-44 45-48  
 46-47  
 ring bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9 18-19 18-23 19-20 20-21 21-22  
 22-23  
 exact/norm bonds :  
 2-17 6-39 7-8 7-9 8-9 10-11 10-12 18-19 18-23 19-20 20-21 21-22 22-23  
 30-31 31-32 34-35 35-36 40-42 41-43 41-44 45-48 46-47  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6  
 isolated ring systems :  
 containing 1 : 7 : 18 :

G1:[\*1], [\*2]

G2:C,O

G3:NO2,NH,NH2,N,[\*3],[\*4],[\*5]

G4:Cl,Br,F,I,OH,SH,NH2,NO2,X,[\*6],[\*7],[\*8],[\*9]

Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
 11:CLASS 12:CLASS 17:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom  
 30:CLASS 31:CLASS 32:CLASS 34:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS  
 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS  
 49:CLASS 50:Atom  
 Generic attributes :  
 42:  
 Saturation : Saturated  
 Number of Carbon Atoms : less than 7  
 43:  
 Saturation : Saturated  
 Number of Carbon Atoms : less than 7  
 44:  
 Saturation : Saturated  
 Number of Carbon Atoms : less than 7  
 45:  
 Saturation : Saturated  
 Number of Carbon Atoms : less than 7  
 46:  
 Saturation : Saturated  
 Number of Carbon Atoms : less than 7

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> d 13  
L3 HAS NO ANSWERS  
L1 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047  
L2 STR  
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.  
L3 QUE L2 NOT L1

=> s 13 sss sam  
SAMPLE SEARCH INITIATED 15:39:38 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 5027 TO ITERATE

39.8% PROCESSED 2000 ITERATIONS 24 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 96288 TO 104792  
PROJECTED ANSWERS: 740 TO 1672

L4 24 SEA SSS SAM L2 NOT L1

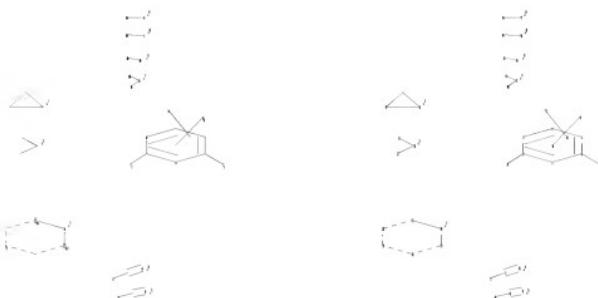
=> => ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L5 SCREEN CREATED

=>  
Uploading C:\Program Files\Stnexp\Queries\10581897 (amd 1).str



chain nodes :  
10 11 12 17 30 31 34 35 36 39 40 41 42 43 44 45 46 47 48 49

```

ring nodes :
1 2 3 4 5 6 7 8 9 18 19 20 21 22 23
ring/chain nodes :
32 57
chain bonds :
2-17 6-39 10-11 10-12 30-31 31-32 34-35 35-36 40-42 41-43 41-44 45-48
46-47
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-9 8-9 18-19 18-23 19-20 20-21 21-22
22-23
exact/norm bonds :
2-17 6-39 7-8 7-9 8-9 10-11 10-12 18-19 18-23 19-20 20-21 21-22 22-23
30-31 31-32 34-35 35-36 40-42 41-43 41-44 45-48 46-47
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 7 : 18 :

```

G1:[\*1], [\*2]

G2:C,O

G3:NO2,NH,NH2,N,[\*3],[\*4],[\*5]

G4:Cl,Br,F,I,OH,SH,NH2,NO2,X,[\*6],[\*7],[\*8],[\*9]

#### Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 17:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom
30:CLASS 31:CLASS 32:CLASS 34:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS
41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS
49:CLASS 50:Atom 57:CLASS 58:Atom

```

#### Generic attributes :

42:

Saturation : Saturated  
Number of Carbon Atoms : less than 7

43:

Saturation : Saturated  
Number of Carbon Atoms : less than 7

44:

Saturation : Saturated  
Number of Carbon Atoms : less than 7

45:

Saturation : Saturated  
Number of Carbon Atoms : less than 7

46:

Saturation : Saturated  
Number of Carbon Atoms : less than 7

L6 STRUCTURE UPLOADED

=> que L6 NOT L5

L7 QUE L6 NOT L5

=> d l7  
L7 HAS NO ANSWERS  
L5 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047  
L6 STR  
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

Structure attributes must be viewed using STN Express query preparation.  
L7 QUE L6 NOT L5

=> s l7 sss sam  
SAMPLE SEARCH INITIATED 15:42:02 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 5027 TO ITERATE

39.8% PROCESSED 2000 ITERATIONS 14 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 96288 TO 104792  
PROJECTED ANSWERS: 348 TO 1058

L8 14 SEA SSS SAM L6 NOT L5

=> => d his

(FILE 'HOME' ENTERED AT 15:38:26 ON 16 JAN 2010)

FILE 'REGISTRY' ENTERED AT 15:38:46 ON 16 JAN 2010  
L1 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047  
L2 STRUCTURE uploaded  
L3 QUE L2 NOT L1  
L4 24 S L3 SSS SAM  
L5 SCREEN 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047  
L6 STRUCTURE uploaded  
L7 QUE L6 NOT L5  
L8 14 S L7 SSS SAM  
L9 953 S L7 SSS FUL

=> => s 19  
L10 74 L9

=> d 110 1-74 bib,ab,hitstr

L10 ANSWER 1 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2009:1536603 CAPLUS

DN 152:28749

TI Synergistic fungicidal compositions containing pyrazolinones

IN Gewehr, Markus; Dietz, Jochen; Grote, Thomas; Haden, Egon

PA BASF SE, Germany

SO PCT Int. Appl., 55pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009147205	A2	20091210	WO 2009-EP56866	20090604
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI EP 2008-157648 A 20080605

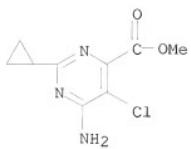
AB The present invention relates to a composition comprising a 5-amino-3-oxo-2,3-dihydropyrazole of the formula I ( $R1 = C1-10$  alkyl;  $R2 =$  alkyl, alkenyl, or alkynyl;  $R3 =$  (un)substituted aryl; and  $X = O$  or  $S$ ) and  $\geq 1$  active compound selected from strobilurins, carboxamides, azoles, heterocyclic compds., carbamates, etc. in a synergistically effective amount. A method for controlling phytopathogenic fungi comprises treating the fungi, their habitat, or seed, soil or plants to be protected against fungal attack with effective amts. of the compds. applied jointly, simultaneously sep., or in succession. Thus, a mixture of 5-amino-2-isopropyl-3-oxo-4-o-tolyl-2,3-dihydropyrazole-1-carbothioic acid allyl ester and propineb (16 + 1 ppm) synergistically controlled the late blight pathogen Phytophthora infestans in a microtiter test, with an efficacy of 98%.

IT 858954-83-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(synergistic fungicidal combinations of pyrazolinones and other active compds.)

RN 858954-83-3 CAPLUS

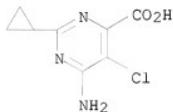
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)



L10 ANSWER 2 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2009:1048611 CAPLUS  
 DN 151:281654  
 TI Herbicidal combinations comprising a herbicide of the class of the diamino-s-triazines  
 IN Hacker, Erwin; Hess, Martin; Hills, Martin Jeffrey; Bonfig-Picard, Georg; Auler, Thomas  
 PA Bayer Cropscience AG, Germany  
 SO PCT Int. Appl., 109pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009103451	A1	20090827	WO 2009-EP962	20090212
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 2092825	A1	20090826	EP 2008-3156	20080221
	R: AT, BS, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				
PRAI	EP 2008-3156	A	20080221		
OS	MARPAT 151:281654				
AB	Herbicide combinations comprise effective amts. of (A) $\geq 1$ amino-s-triazine (I or salts thereof) and (B) $\geq 1$ herbicide selected from thiencarbazone, tembotriione, SYN-523, pyroxysulam, penoxsulam, SYN-449, pyrasulfotole, trifloxytoluron, saflufenacil, aminopyralid, ethofumesate, aminocyclopyrachlor, and pyroxasulfone (KIH=485). In formula I, R <sub>1</sub> = H or CZ122Z3, where Z1 = H, halo, (halo)alkyl, etc.; Z2 = H, halo, alkyl, or alkoxy; or Z1 and Z2 can be part of a cycloalk(en)yl radical; Z3 = H, halo, alkyl, or alkoxy; R <sub>2</sub> , R <sub>3</sub> independently = H, (halo)alkyl, (halo)alkenyl, etc.; R <sub>4</sub> = H, C1-6 alkyl or alkoxy; R <sub>5</sub> -R <sub>8</sub> independently = H, (halo)alkyl, halo, (halo)alkoxy, or CN; and A = CH <sub>2</sub> , O, or a direct bond. The active ingredients are applied jointly or sep. as preemergence and/or postemergence herbicides to control weeds or regulate plant growth. Thus, 2-amino-4-[(1R,2S)-2,6-dimethylindan-1-ylamino]-6-[(1R)-1-fluoroethyl]-1,3,5-triazine + thiencarbazone-Me at 0.2 + 0.5 g/ha showed synergistic herbicidal action against Ipomoea hederifolia.				
IT	1182056-72-9				
	RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses) (as synergistic herbicide)				
RN	1182056-72-9 CAPLUS				
CN	4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with N2-[(1R,2S)-2,3-dihydro-2,6-dimethyl-1H-inden-1-yl]-6-[(1R)-1-fluoroethyl]-1,3,5-triazine-2,4-diamine (CA INDEX NAME)				

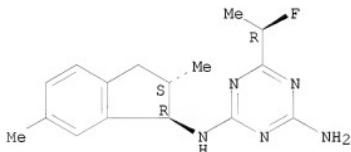
CM 1

CRN 858956-08-8  
CMF C8 H8 Cl N3 O2

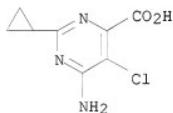
CM 2

CRN 730979-19-8  
CMF C16 H20 F N5

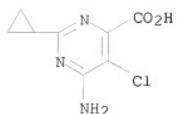
Absolute stereochemistry.



IT 858956-08-8, Aminocyclopyrachlor 858956-08-8D,  
Aminocyclopyrachlor, esters and salts  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
(Biological study); USES (Uses)  
(synergistic combinations of diamino-s-triazines and other herbicides)  
RN 858956-08-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX  
NAME)



RN 858956-08-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX  
NAME)



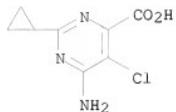
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2009:1040879 CAPLUS  
 DN 151:281649  
 TI Herbicidal combinations comprising a herbicide of the class of the diamino-s-triazines  
 IN Hacker, Erwin; Hess, Martin; Hills, Martin; Bonfig-Picard, Georg; Auler, Thomas  
 PA Bayer Cropscience Aktiengesellschaft, Germany  
 SO Eur. Pat. Appl., 61pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 2

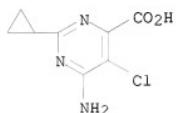
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 2092825	A1	20090826	EP 2008-3156	20080221
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, AL, BA, MK, RS				
	WO 2009103451	A1	20090827	WO 2009-EP962	20090212
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI EP 2008-3156 A 20080221  
 AB Herbicide combinations comprise effective amts. of (A)  $\geq 1$  amino-s-triazine (I or salts thereof) and (B)  $\geq 1$  herbicide selected from thiencarbazone, tembotrione, SYN-523, pyroxasulam, penoxsulam, SYN-449, pyrasulfotole, trifloxysulfuron, saflufenacil, aminopyralid, ethofumesate, aminocyclopyrachlor, and pyroxasulfone (KIH-485). In formula I, R1 = H or CZ12Z3, where Z1 = H, halo, (halo)alkyl, etc.; Z2 = H, halo, alkyl, or alkoxy; or Z1 and Z2 can be part of a cycloalk(en)yl radical; Z3 = H, halo, alkyl, or alkoxy; R2, R3 independently = H, (halo)alkyl, (halo)alkenyl, etc.; R4 = H, C1-6 alkyl or alkoxy; R5-R8 independently = H, (halo)alkyl, halo, (halo)alkoxy, or CN; and A = CH2, O, or a direct bond. The active ingredients are applied jointly or sep. as preemergence and/or postemergence herbicides to control weeds or regulate plant growth. Thus, 2-amino-4-[(1R,2S)-2,6-dimethylindan-1-ylamino]-6-[(1R)-1-fluoroethyl]-1,3,5-triazine + thiencarbazone-Me at 0.2 + 0.5 g/ha showed synergistic herbicidal action against Ipomoea hederifolia.

IT 858956-08-8, Aminocyclopyrachlor 858956-08-8D,  
 Aminocyclopyrachlor, esters and salts  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (synergistic combinations of diamino-s-triazines and other herbicides)  
 RN 858956-08-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



RN 858956-08-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX  
NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2009:793393 CAPLUS  
 DN 151:95127  
 TI Pyrimidine derivatives as herbicides  
 IN Aspinall, Mary Bernadette; Mound, William Roderick; Wailes, Jeffrey Steven; Whittingham, William Guy; Williams, John; Winn, Caroline Louise; Worthington, Paul Antony  
 PA Syngenta Limited, UK  
 SO PCT Int. Appl., 241 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009081112	A2	20090702	WO 2008-GB4184	20081218
WO 2009081112	A3	20091210		
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				

PRAI GB 2007-25218 A 20071224

OS MARPAT 151:95127

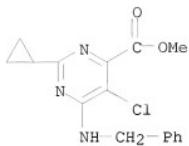
AB The present invention relates to substituted pyrimidine derivs., as well as N-oxides and agriculturally acceptable salts thereof, and their use to control undesired plant growth, in particular in crop plants. The invention extends to herbicidal compns. comprising such compds., N-oxides and/or salts as well as mixts. of the same with one or more further active ingredient (such as, for example, an herbicide, fungicide, insecticide and/or plant growth regulator) and/or a safener. Thus, 5-chloro-2-cyclopropyl-4-cyclopropylamino-6-methoxycarbonylpyrimidine at 1000 g/ha gave complete control of Solanum nigrum and Amaranthus retroflexus.

IT 1165931-78-1P	1165932-26-2P	1165932-27-3P
1165932-30-8P	1165932-33-3P	1165932-36-4P
1165932-37-5P	1165932-38-6P	1165932-40-0P
1165932-41-1P	1165932-49-9P	1165932-55-7P
1165932-72-8P	1165932-90-0P	1165933-02-7P
1165933-28-7P	1165933-29-8P	1165933-32-3P
1165934-89-3P	1165934-90-6P	1165935-16-9P
1165936-11-7P	1165936-13-9P	1165936-42-4P
1165936-45-7P		

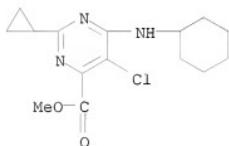
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation and use as herbicide)

RN 1165931-78-1 CAPLUS

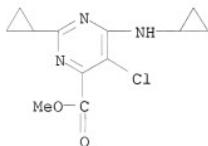
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[phenylmethyl]amino-, methyl ester (CA INDEX NAME)



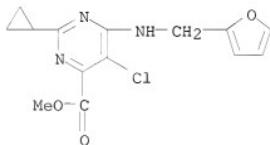
RN 1165932-26-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclohexylamino)-2-cyclopropylmethyl ester (CA INDEX NAME)



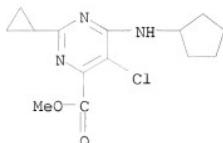
RN 1165932-27-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(cyclopropylamino)methyl ester (CA INDEX NAME)



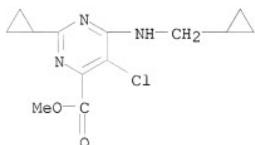
RN 1165932-30-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanyl)amino]methyl ester (CA INDEX NAME)



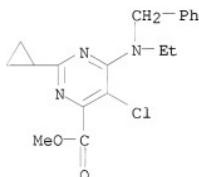
RN 1165932-35-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclopentylamino)-2-cyclopropyl-,  
 methyl ester (CA INDEX NAME)



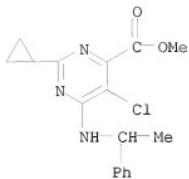
RN 1165932-36-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[cyclopropylmethyl]amino-, methyl ester (CA INDEX NAME)



RN 1165932-37-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)

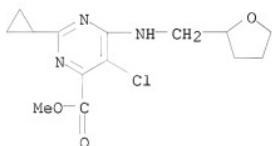


RN 1165932-38-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



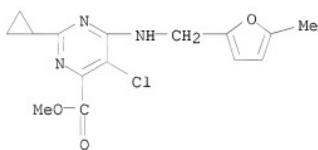
RN 1165932-40-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(tetrahydro-2-furanyl)methyl]amino-, methyl ester (CA INDEX NAME)



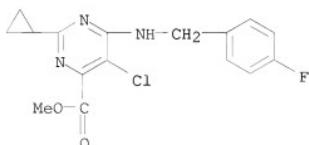
RN 1165932-41-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(5-methyl-2-furanyl)methyl]amino-, methyl ester (CA INDEX NAME)



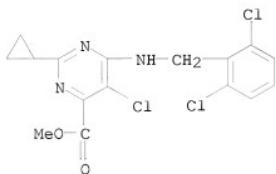
RN 1165932-49-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-fluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



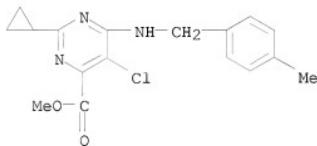
RN 1165932-55-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,6-dichlorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



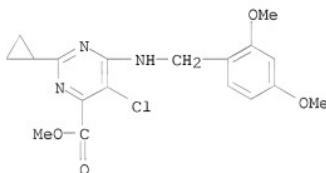
RN 1165932-72-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methylphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



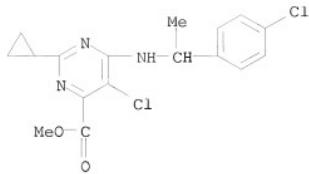
RN 1165932-90-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,4-dimethoxyphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



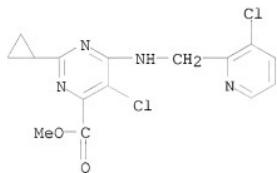
RN 1165933-02-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1-(4-chlorophenyl)ethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



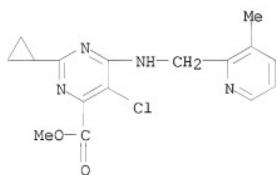
RN 1165933-28-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(3-chloro-2-pyridinyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



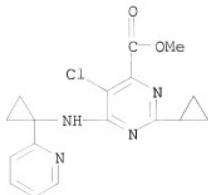
RN 1165933-29-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-methyl-2-pyridinyl)methyl]amino-, methyl ester (CA INDEX NAME)

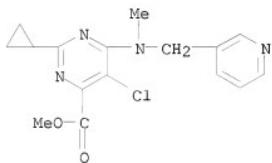


RN 1165933-32-3 CAPLUS

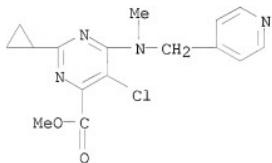
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-pyridinyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)



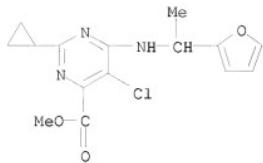
RN 1165934-89-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(3-pyridinylmethyl)aminol]-, methyl ester (CA INDEX NAME)



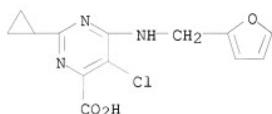
RN 1165934-90-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(4-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



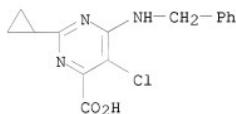
RN 1165935-16-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2-furanyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



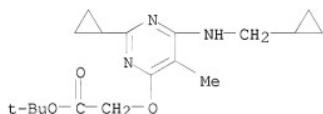
RN 1165936-11-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]- (CA INDEX NAME)



RN 1165936-13-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(phenylmethyl)amino]- (CA INDEX NAME)



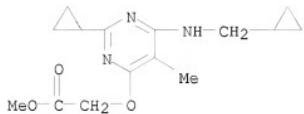
RN 1165936-42-4 CAPLUS  
 CN Acetic acid, 2-[(2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl)oxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RN 1165936-45-7 CAPLUS  
 CN Acetic acid, 2-[(2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl)oxy]-, methyl ester, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 1165936-44-6  
 CMF C15 H21 N3 O3



CM 2

CRN 76-05-1  
 CMF C2 H F3 O2



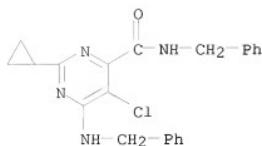
IT	1165931-79-2P	1165932-28-4P	1165932-29-5P
	1165932-31-9P	1165932-32-0P	1165932-33-1P
	1165932-34-2P	1165932-39-7P	1165932-42-2P
	1165932-43-3P	1165932-44-4P	1165932-45-5P
	1165932-46-6P	1165932-47-7P	1165932-50-2P
	1165932-51-3P	1165932-52-4P	1165932-53-5P
	1165932-54-6P	1165932-56-8P	1165932-57-9P
	1165932-58-0P	1165932-59-1P	1165932-60-4P
	1165932-61-5P	1165932-62-6P	1165932-63-7P
	1165932-64-8P	1165932-65-9P	1165932-66-0P
	1165932-67-1P	1165932-68-2P	1165932-69-3P
	1165932-70-6P	1165932-71-7P	1165932-73-9P
	1165932-74-0P	1165932-75-1P	1165932-76-2P
	1165932-77-3P	1165932-78-4P	1165932-79-5P
	1165932-80-8P	1165932-81-9P	1165932-82-0P
	1165932-83-1P	1165932-84-2P	1165932-85-3P
	1165932-86-4P	1165932-87-5P	1165932-88-6P
	1165932-89-7P	1165932-91-1P	1165932-92-2P
	1165932-93-3P	1165932-95-5P	1165932-96-6P
	1165932-97-7P	1165932-98-8P	1165932-99-9P
	1165933-00-5P	1165933-01-6P	1165933-03-8P
	1165933-04-9P	1165933-05-0P	1165933-06-1P
	1165933-07-2P	1165933-08-3P	1165933-09-4P
	1165933-10-7P	1165933-11-8P	1165933-12-9P
	1165933-13-0P	1165933-14-1P	1165933-15-2P
	1165933-16-3P	1165933-17-4P	1165933-18-5P
	1165933-19-6P	1165933-20-9P	1165933-21-0P
	1165933-22-1P	1165933-23-2P	1165933-24-3P
	1165933-25-4P	1165933-26-5P	1165933-27-6P
	1165933-30-1P	1165933-31-2P	1165933-33-4P

1165933-34-5P	1165933-36-7P	1165933-37-8P
1165933-38-9P	1165933-39-0P	1165933-40-3P
1165933-41-4P	1165933-42-5P	1165933-43-6P
1165933-44-7P	1165933-45-8P	1165933-46-9P
1165933-47-0P	1165933-48-1P	1165933-49-2P
1165933-50-5P	1165933-51-6P	1165933-52-7P
1165933-53-8P	1165933-54-9P	1165933-55-0P
1165933-56-1P	1165933-57-2P	1165933-58-3P
1165933-59-4P	1165933-60-7P	1165933-61-8P
1165933-63-0P	1165933-64-1P	1165933-65-2P
1165933-66-3P	1165933-67-4P	1165933-68-5P
1165933-69-6P	1165933-71-0P	1165933-72-1P
1165933-73-2P	1165933-74-3P	1165933-75-4P
1165933-76-5P	1165933-77-6P	1165933-78-7P
1165933-79-8P	1165933-80-1P	1165933-81-2P
1165933-82-3P	1165933-83-4P	1165933-84-5P
1165933-85-6P	1165933-86-7P	1165933-87-8P
1165933-88-9P	1165933-89-0P	1165933-90-3P
1165933-91-4P	1165933-92-5P	1165933-93-6P
1165933-94-7P	1165933-95-8P	1165933-96-9P
1165933-97-0P	1165933-98-1P	1165933-99-2P
1165934-00-8P	1165934-01-9P	1165934-02-0P
1165934-03-1P	1165934-04-2P	1165934-05-3P
1165934-06-4P	1165934-07-5P	1165934-08-6P
1165934-09-7P	1165934-10-0P	1165934-11-1P
1165934-12-2P	1165934-13-3P	1165934-14-4P
1165934-15-5P	1165934-16-6P	1165934-17-7P
1165934-18-8P	1165934-19-9P	1165934-20-2P
1165934-21-3P	1165934-22-4P	1165934-23-5P
1165934-24-6P	1165934-25-7P	1165934-26-8P
1165934-27-9P	1165934-28-0P	1165934-29-1P
1165934-30-4P	1165934-31-5P	1165934-32-6P
1165934-33-7P	1165934-34-8P	1165934-35-9P
1165934-36-0P	1165934-37-1P	1165934-38-2P
1165934-39-3P	1165934-40-6P	1165934-41-7P
1165934-42-8P	1165934-43-9P	1165934-44-0P
1165934-45-1P	1165934-46-2P	1165934-47-3P
1165934-48-4P	1165934-49-5P	1165934-50-8P
1165934-51-9P	1165934-52-0P	1165934-53-1P
1165934-54-2P	1165934-55-3P	1165934-56-4P
1165934-57-5P	1165934-58-6P	1165934-59-7P
1165934-60-0P	1165934-61-1P	1165934-62-2P
1165934-64-4P	1165934-65-5P	1165934-66-6P
1165934-67-7P	1165934-69-9P	1165934-70-2P
1165934-71-3P	1165934-72-4P	1165934-73-5P
1165934-74-6P	1165934-76-8P	1165934-77-9P
1165934-78-0P	1165934-79-1P	1165934-80-4P
1165934-82-6P	1165934-83-7P	1165934-85-9P

RL: AGN (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

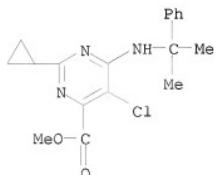
(preparation and use as herbicide)

RN 1165931-79-2 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 5-chloro-2-cyclopropyl-N-(phenylmethyl)-6-[(phenylmethyl)amino]- (CA INDEX NAME)



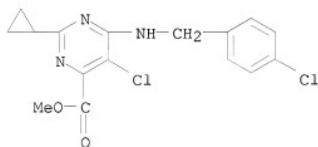
RN 1165932-28-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methyl-1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



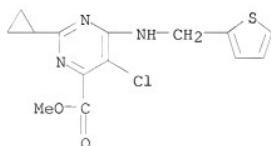
RN 1165932-29-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(4-chlorophenyl)methylamino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

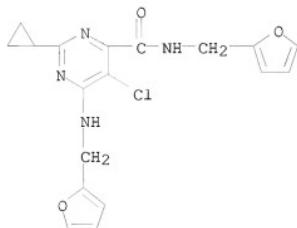


RN 1165932-31-9 CAPLUS

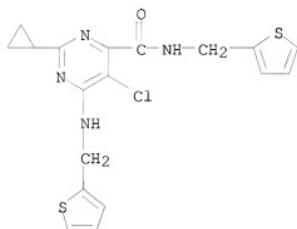
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-thienylmethyl)amino]-, methyl ester (CA INDEX NAME)



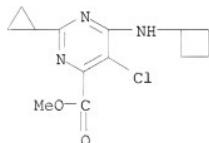
RN 1165932-32-0 CAPLUS  
CN 4-Pyrimidinecarboxamide, 5-chloro-2-cyclopropyl-N-(2-furanylmethyl)-6-[(2-furanylmethyl)amino]- (CA INDEX NAME)



RN 1165932-33-1 CAPLUS  
CN 4-Pyrimidinecarboxamide, 5-chloro-2-cyclopropyl-N-(2-thienylmethyl)-6-[(2-thienylmethyl)amino]- (CA INDEX NAME)

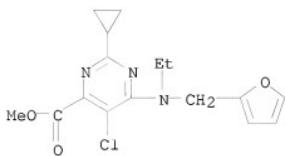


RN 1165932-34-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclobutylamino)-2-cyclopropyl-, methyl ester (CA INDEX NAME)



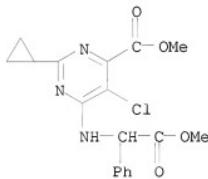
RN 1165932-39-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(2-

furanylmethyl)amino]-, methyl ester (CA INDEX NAME)



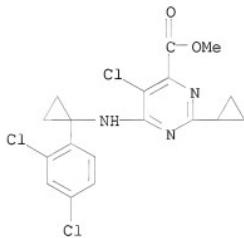
RN 1165932-42-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxy-2-oxo-1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



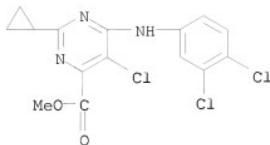
RN 1165932-43-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-(2,4-dichlorophenyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)

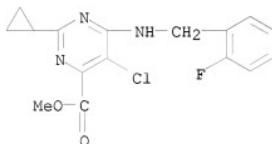


RN 1165932-44-4 CAPLUS

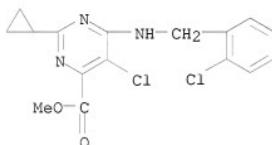
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,4-dichlorophenyl)amino]-, methyl ester (CA INDEX NAME)



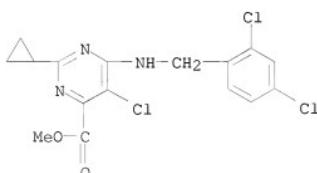
RN 1165932-45-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-fluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



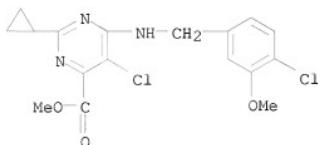
RN 1165932-46-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-chlorophenyl)methyl]amino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



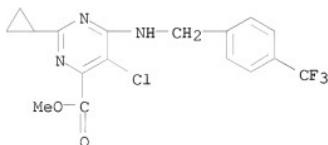
RN 1165932-47-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,4-dichlorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



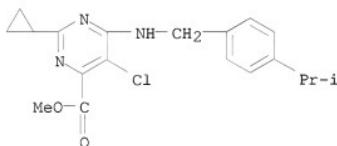
RN 1165932-50-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(4-chloro-3-methoxyphenyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



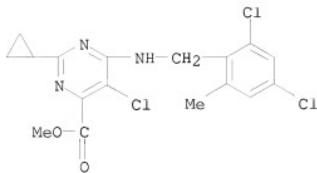
RN 1165932-51-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-(trifluoromethyl)phenyl)methyl]amino-, methyl ester (CA INDEX NAME)



RN 1165932-52-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-(1-methylethyl)phenyl)methyl]amino-, methyl ester (CA INDEX NAME)

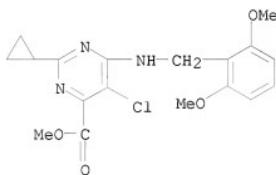


RN 1165932-53-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,4-dichloro-6-methylphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



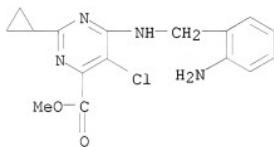
RN 1165932-54-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,6-dimethoxyphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



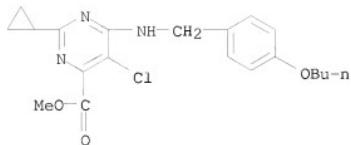
RN 1165932-56-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(2-aminophenyl)methyl]amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

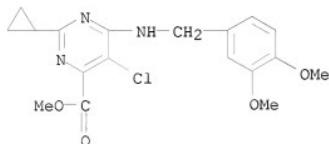


RN 1165932-57-9 CAPLUS

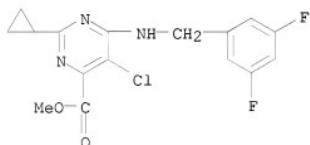
CN 4-Pyrimidinecarboxylic acid, 6-[(4-butoxyphenyl)methyl]amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



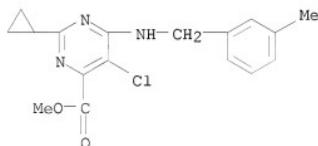
RN 1165932-58-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,4-dimethoxyphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



RN 1165932-59-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,5-difluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)

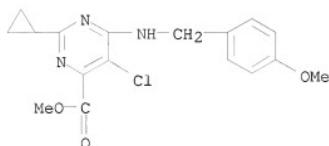


RN 1165932-60-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-methylphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



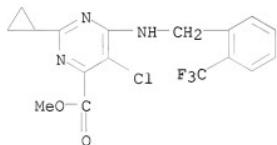
RN 1165932-61-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methoxyphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



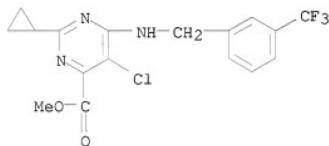
RN 1165932-62-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(trifluoromethyl)phenyl)methyl]amino-, methyl ester (CA INDEX NAME)



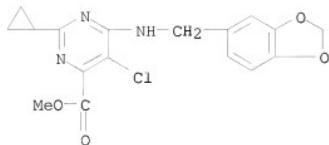
RN 1165932-63-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-(trifluoromethyl)phenyl)methyl]amino-, methyl ester (CA INDEX NAME)

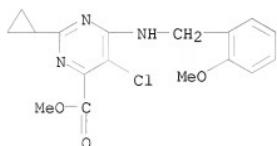


RN 1165932-64-8 CAPLUS

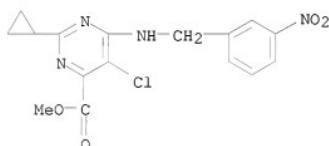
CN 4-Pyrimidinecarboxylic acid, 6-[(1,3-benzodioxol-5-ylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



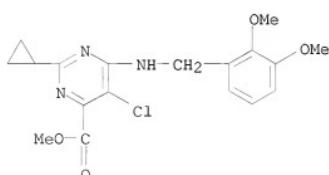
RN 1165932-65-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxyphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



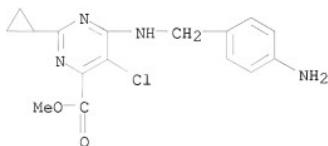
RN 1165932-66-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-nitrophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



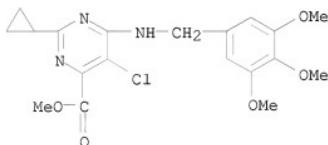
RN 1165932-67-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,3-dimethoxyphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



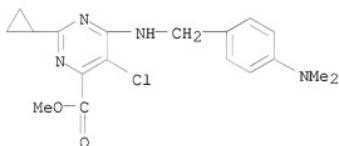
RN 1165932-68-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[(4-aminophenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



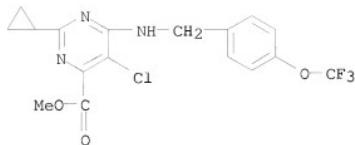
RN 1165932-69-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,4,5-trimethoxyphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



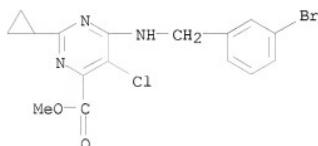
RN 1165932-70-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-(dimethylamino)phenyl)methyl]amino-, methyl ester (CA INDEX NAME)



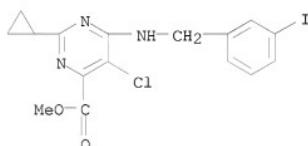
RN 1165932-71-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-(trifluoromethoxy)phenyl)methyl]amino-, methyl ester (CA INDEX NAME)



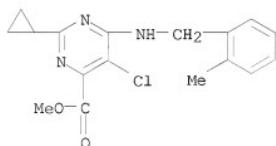
RN 1165932-73-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-[(3-bromophenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165932-74-0 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-iodophenyl)methyl]amino-, methyl ester (CA INDEX NAME)

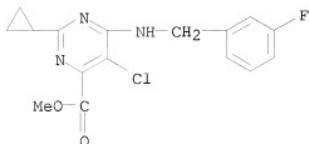


RN 1165932-75-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methylphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



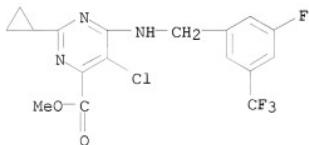
RN 1165932-76-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[3-fluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



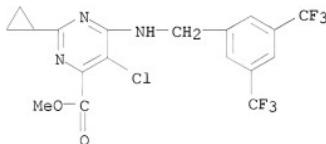
RN 1165932-77-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[3-fluoro-5-(trifluoromethyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



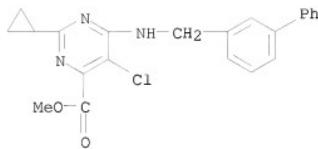
RN 1165932-78-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[[3,5-bis(trifluoromethyl)phenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

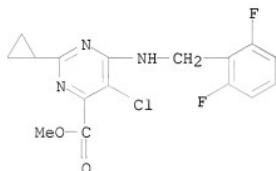


RN 1165932-79-5 CAPLUS

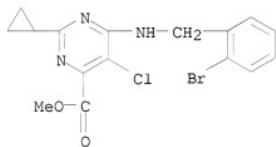
CN 4-Pyrimidinecarboxylic acid, 6-[[[1,1'-biphenyl]-3-ylmethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



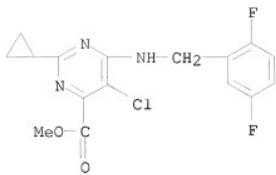
RN 1165932-80-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,6-difluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



RN 1165932-81-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-[(2-bromophenyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

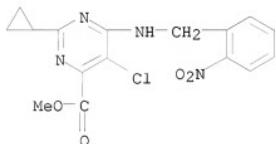


RN 1165932-82-0 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,5-difluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



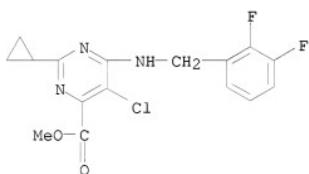
RN 1165932-83-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-nitrophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



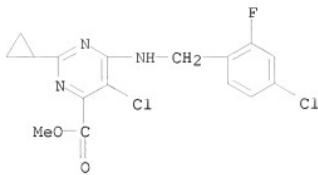
RN 1165932-84-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,3-difluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



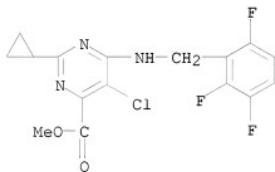
RN 1165932-85-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(4-chloro-2-fluorophenyl)methyl]amino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



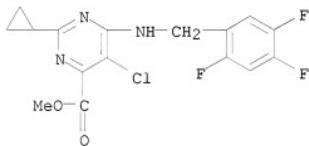
RN 1165932-86-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,3,6-trifluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



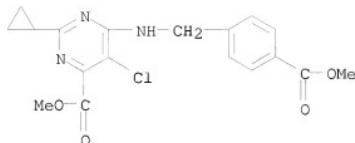
RN 1165932-87-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,4,5-trifluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



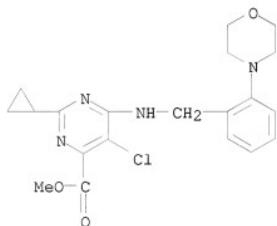
RN 1165932-88-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[4-(methoxycarbonyl)phenyl]methyl]amino]-, methyl ester (CA INDEX NAME)



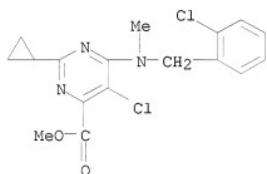
RN 1165932-89-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[2-(4-morpholinyl)phenyl]methyl]amino]-, methyl ester (CA INDEX NAME)



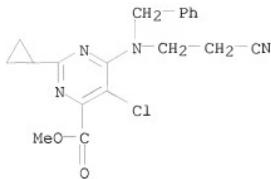
RN 1165932-91-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-chlorophenyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



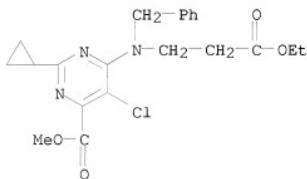
RN 1165932-92-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-cyanoethyl)(phenylmethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



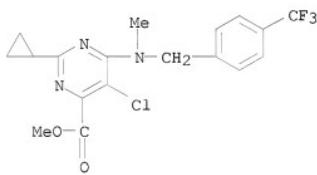
RN 1165932-93-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-ethoxy-3-oxopropyl)(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)



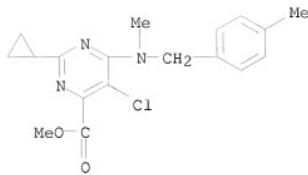
RN 1165932-95-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(4-(trifluoromethyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



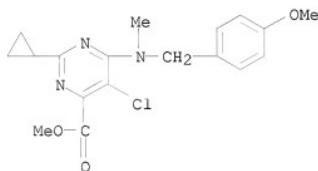
RN 1165932-96-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methylphenyl)methyl]amino-, methyl ester (CA INDEX NAME)



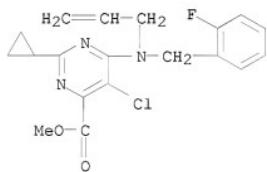
RN 1165932-97-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methoxyphenyl)methyl]methylamino-, methyl ester (CA INDEX NAME)



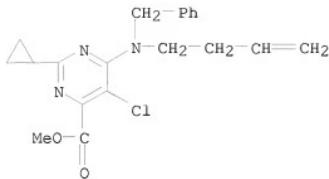
RN 1165932-98-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-fluorophenyl)methyl]2-propen-1-ylamino-, methyl ester (CA INDEX NAME)



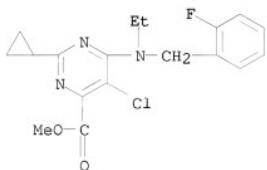
RN 1165932-99-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[3-buten-1-yl(phenylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



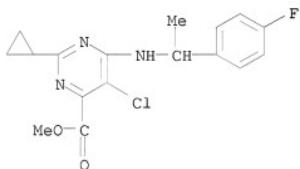
RN 1165933-00-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(2-fluorophenyl)methyl]amino-, methyl ester (CA INDEX NAME)



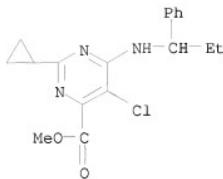
RN 1165933-01-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(4-fluorophenyl)ethyl)amino]-, methyl ester (CA INDEX NAME)



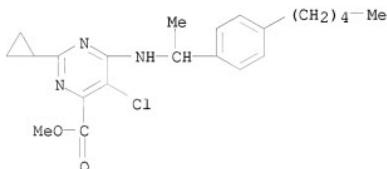
RN 1165933-03-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)



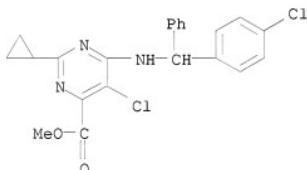
RN 1165933-04-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(4-pentylphenyl)ethyl)amino]-, methyl ester (CA INDEX NAME)



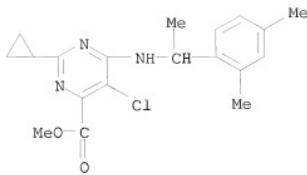
RN 1165933-05-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(4-chlorophenyl)phenylmethyl]amino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-06-1 CAPLUS

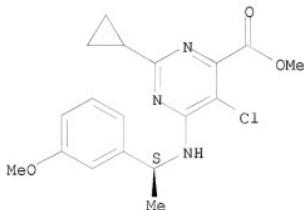
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(2,4-dimethylphenyl)ethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165933-07-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-1-(3-methoxyphenyl)ethyl]amino-, methyl ester (CA INDEX NAME)

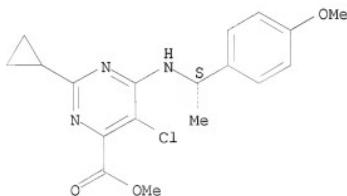
Absolute stereochemistry.



RN 1165933-08-3 CAPLUS

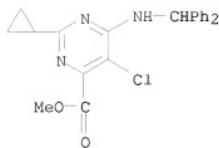
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-1-(4-methoxyphenyl)ethyl]amino-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

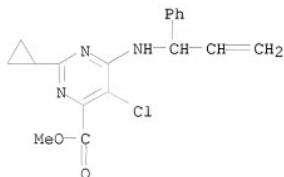


RN 1165933-09-4 CAPLUS

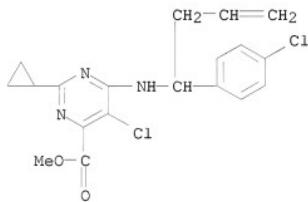
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(diphenylmethyl)amino]-, methyl ester (CA INDEX NAME)



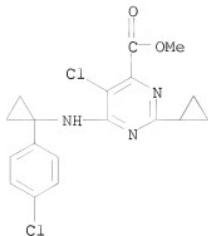
RN 1165933-10-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-phenyl-2-propen-1-yl)amino]-, methyl ester (CA INDEX NAME)



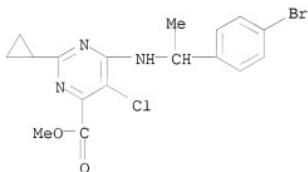
RN 1165933-11-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1-(4-chlorophenyl)-3-buten-1-yl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



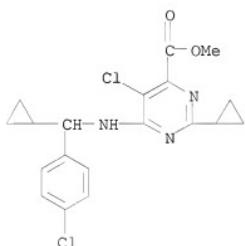
RN 1165933-12-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1-(4-chlorophenyl)cyclopropyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-13-0 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-[(1-(4-bromophenyl)ethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

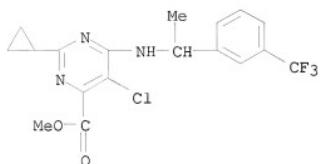


RN 1165933-14-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(4-chlorophenyl)cyclopropylmethyl]amino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



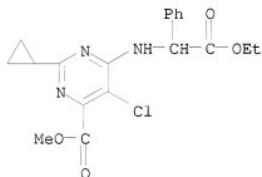
RN 1165933-15-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[3-

(trifluoromethyl)phenyl]ethyl]amino]-, methyl ester (CA INDEX NAME)



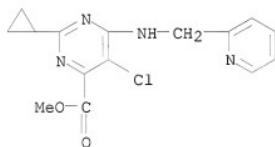
RN 1165933-16-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-ethoxy-2-oxo-1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



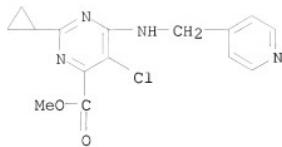
RN 1165933-17-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)

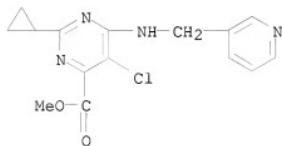


RN 1165933-18-5 CAPLUS

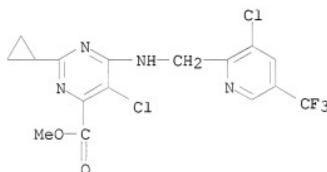
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



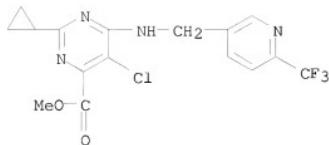
RN 1165933-19-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



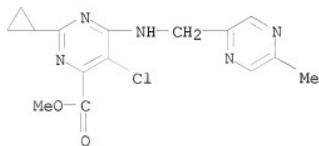
RN 1165933-20-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



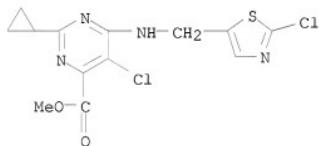
RN 1165933-21-0 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[6-(trifluoromethyl)-3-pyridinyl]methyl]amino]-, methyl ester (CA INDEX NAME)



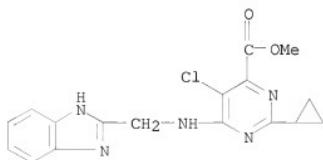
RN 1165933-22-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(5-methyl-2-pyrazinyl)methyl]amino-, methyl ester (CA INDEX NAME)



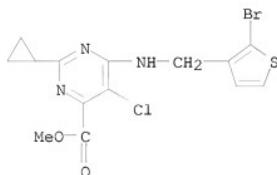
RN 1165933-23-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-chloro-5-thiazolyl)methyl]amino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



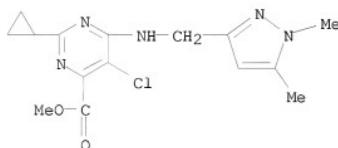
RN 1165933-24-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-[(1H-benzimidazol-2-ylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



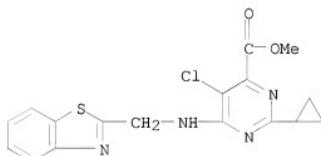
RN 1165933-25-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[[(2-bromo-3-thienyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-26-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1,5-dimethyl-1H-pyrazol-3-yl)methyl]amino-, methyl ester (CA INDEX NAME)

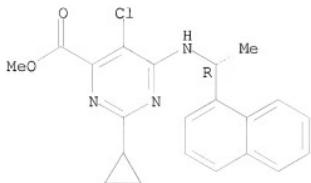


RN 1165933-27-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[(2-benzothiazolylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-30-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R)-1-(1-naphthalenyl)ethyl]amino-, methyl ester (CA INDEX NAME)

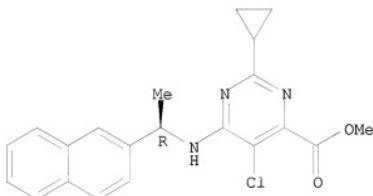
Absolute stereochemistry.



RN 1165933-31-2 CAPLUS

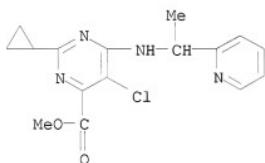
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R)-1-(2-naphthalenyl)ethyl]amino-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



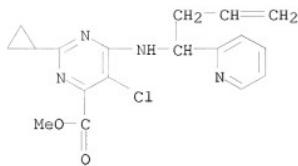
RN 1165933-33-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(2-pyridinyl)ethyl]amino-, methyl ester (CA INDEX NAME)



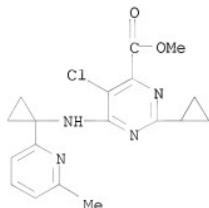
RN 1165933-34-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(2-pyridinyl)-3-buten-1-ylamino)-, methyl ester (CA INDEX NAME)



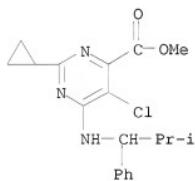
RN 1165933-36-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(6-methyl-2-pyridinyl)cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



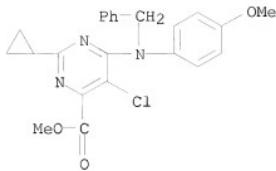
RN 1165933-37-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methyl-1-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)



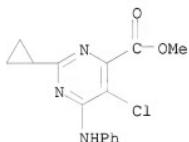
RN 1165933-38-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methoxyphenyl)(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)



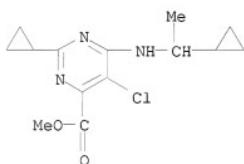
RN 1165933-39-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(phenylamino)-, methyl ester (CA INDEX NAME)



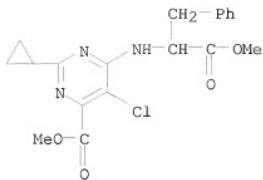
RN 1165933-40-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-cyclopropylethyl)amino]-, methyl ester (CA INDEX NAME)



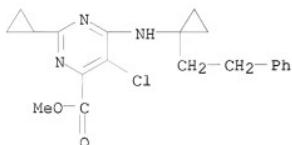
RN 1165933-41-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-methoxy-2-oxo-1-(phenylmethyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



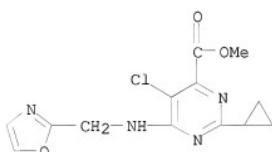
RN 1165933-42-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(2-phenylethyl)cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



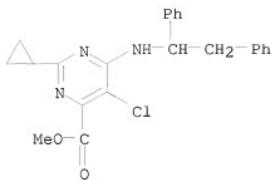
RN 1165933-43-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-oxazolylmethyl)amino]-, methyl ester (CA INDEX NAME)



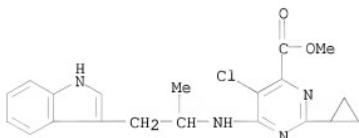
RN 1165933-44-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1,2-diphenylethyl)amino]-, methyl ester (CA INDEX NAME)



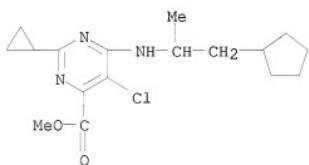
RN 1165933-45-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(1H-indol-3-yl)-1-methylethyl)amino]-, methyl ester (CA INDEX NAME)



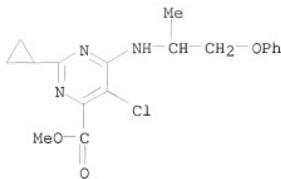
RN 1165933-46-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-cyclopentyl-1-methylethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



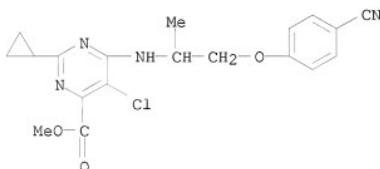
RN 1165933-47-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methyl-2-phenoxyethyl)amino]-, methyl ester (CA INDEX NAME)



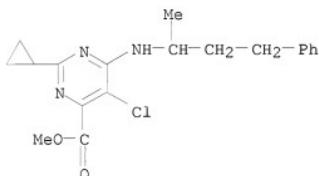
RN 1165933-48-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-(4-cyanophenoxy)-1-methylethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165933-49-2 CAPLUS

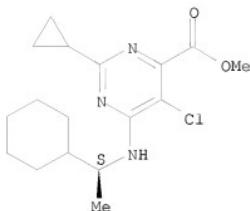
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methyl-3-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)



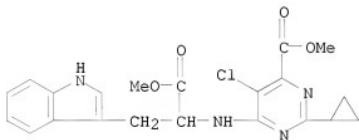
RN 1165933-50-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1S)-1-cyclohexylethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

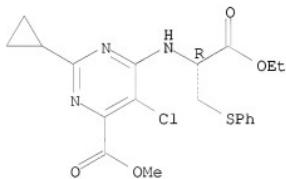


RN 1165933-51-6 CAPLUS  
 CN Tryptophan, N-[5-chloro-2-cyclopropyl-6-(methoxycarbonyl)-4-pyrimidinyl]-, methyl ester (CA INDEX NAME)



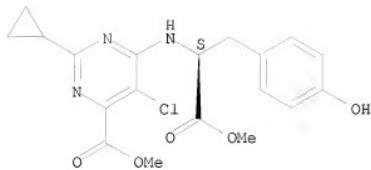
RN 1165933-52-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R)-2-ethoxy-2-oxo-1-[(phenylthio)methyl]ethyl]amino-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165933-53-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-1-[(4-hydroxyphenyl)methyl]-2-methoxy-2-oxoethyl]amino-, methyl ester (CA INDEX NAME)

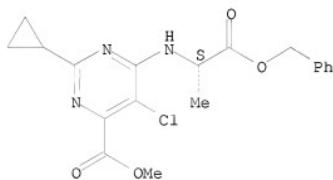
Absolute stereochemistry.



RN 1165933-54-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-1-methyl-2-oxo-2-(phenylmethoxy)ethyl]amino-, methyl ester (CA INDEX NAME)

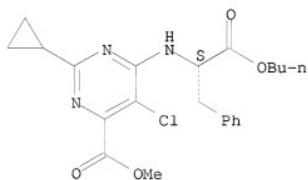
Absolute stereochemistry.



RN 1165933-55-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(1S)-2-butoxy-2-oxo-1-(phenylmethyl)ethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

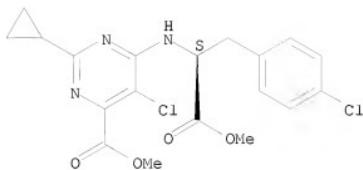
Absolute stereochemistry.



RN 1165933-56-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1S)-1-[(4-chlorophenyl)methyl]-2-methoxy-2-oxoethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

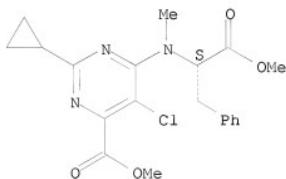
Absolute stereochemistry.



RN 1165933-57-2 CAPLUS

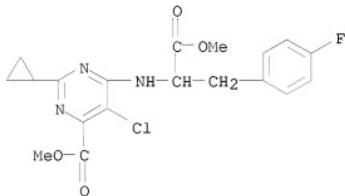
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-2-methoxy-2-oxo-1-(phenylmethyl)ethyl]methylamino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



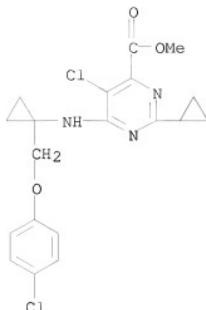
RN 1165933-58-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-[(4-fluorophenyl)methyl]-2-methoxy-2-oxoethyl]amino]-, methyl ester (CA INDEX NAME)



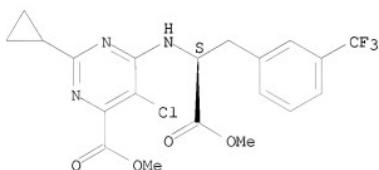
RN 1165933-59-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[1-[(4-chlorophenoxy)methyl]cyclopropyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



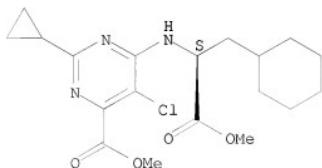
RN 1165933-60-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-2-methoxy-2-oxo-1-[(3-(trifluoromethyl)phenyl)methyl]ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165933-61-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1S)-1-(cyclohexylmethyl)-2-methoxy-2-oxoethyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

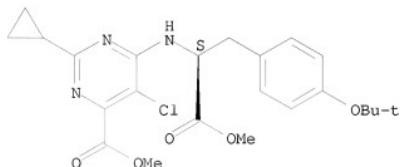
Absolute stereochemistry.



RN 1165933-63-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-1-[[4-(1,1-

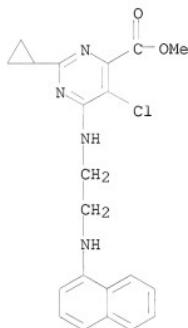
dimethylethoxy)phenyl]methyl]-2-methoxy-2-oxoethyl]amino]-, methyl ester  
(CA INDEX NAME)

Absolute stereochemistry.



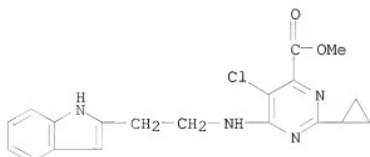
RN 1165933-64-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(1-naphthalenylamino)ethyl]amino]-, methyl ester (CA INDEX NAME)

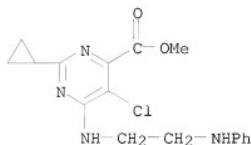


RN 1165933-65-2 CAPLUS

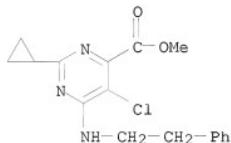
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(1H-indol-2-yl)ethyl]amino]-, methyl ester (CA INDEX NAME)



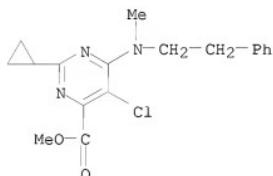
RN 1165933-66-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[2-(phenylamino)ethyl]amino-, methyl ester (CA INDEX NAME)



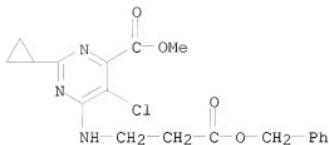
RN 1165933-67-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[2-(phenylethyl)amino]-, methyl ester (CA INDEX NAME)



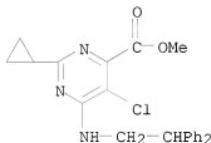
RN 1165933-68-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(2-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



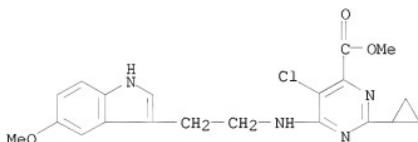
RN 1165933-69-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[3-oxo-3-(phenylmethoxy)propyl]amino-, methyl ester (CA INDEX NAME)



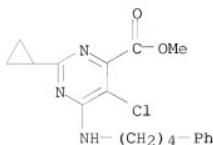
RN 1165933-71-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,2-diphenylethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165933-72-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(5-methoxy-1H-indol-3-yl)ethyl)amino]-, methyl ester (CA INDEX NAME)

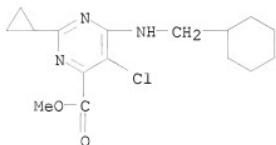


RN 1165933-73-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-phenylbutyl)amino]-, methyl ester (CA INDEX NAME)



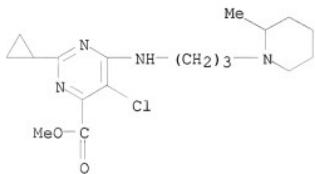
RN 1165933-74-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(cyclohexylmethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



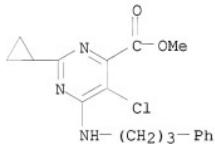
RN 1165933-75-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-(2-methyl-1-piperidinyl)propyl)amino]-, methyl ester (CA INDEX NAME)



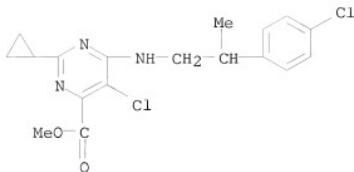
RN 1165933-76-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)



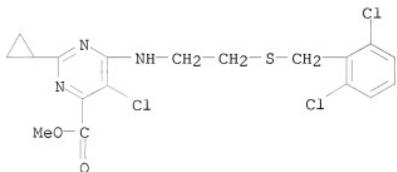
RN 1165933-77-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-(4-chlorophenyl)propyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



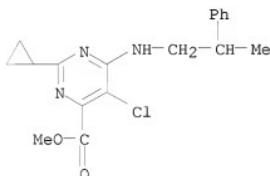
RN 1165933-78-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-[(2,6-dichlorophenyl)methyl]thio)ethyl]amino]-, methyl ester (CA INDEX NAME)



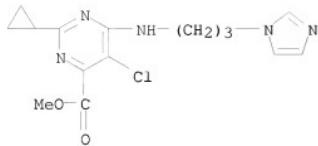
RN 1165933-79-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-phenylpropyl)amino]-, methyl ester (CA INDEX NAME)

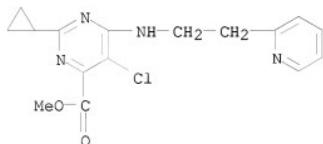


RN 1165933-80-1 CAPLUS

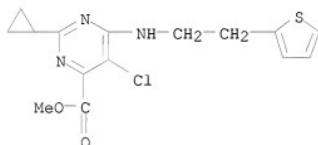
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-(1H-imidazol-1-yl)propyl)amino]-, methyl ester (CA INDEX NAME)



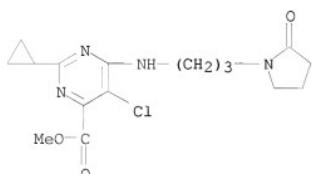
RN 1165933-81-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(2-pyridinyl)ethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165933-82-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(2-thienyl)ethyl)amino]-, methyl ester (CA INDEX NAME)

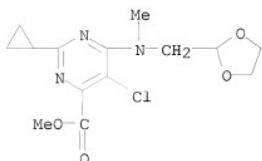


RN 1165933-83-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-(2-oxo-1-pyrrolidinyl)propyl)amino]-, methyl ester (CA INDEX NAME)



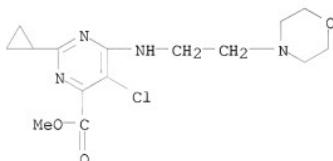
RN 1165933-84-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1,3-dioxolan-2-ylmethyl)methylamino]-, methyl ester (CA INDEX NAME)



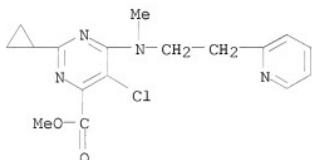
RN 1165933-85-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(4-morpholinyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



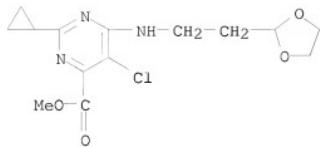
RN 1165933-86-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[2-(2-pyridinyl)ethyl]aminol]-, methyl ester (CA INDEX NAME)

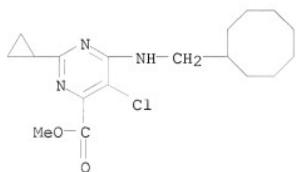


RN 1165933-87-8 CAPLUS

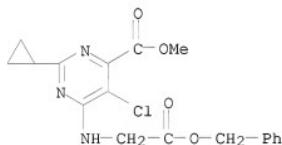
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[2-(1,3-dioxolan-2-yl)ethyl]amino]-, methyl ester (CA INDEX NAME)



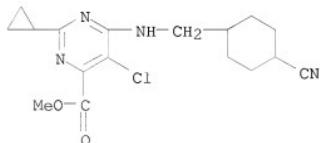
RN 1165933-88-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(cyclooctylmethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



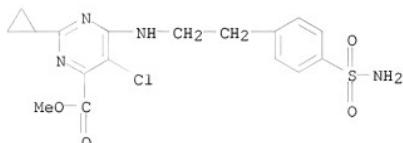
RN 1165933-89-0 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-oxo-2-(phenylmethoxy)ethyl)amino]-, methyl ester (CA INDEX NAME)



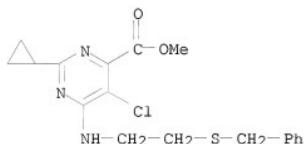
RN 1165933-90-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[(4-cyanocyclohexyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



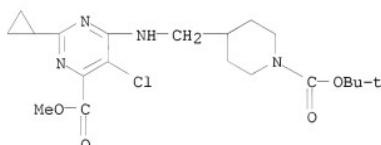
RN 1165933-91-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[{2-[4-(aminosulfonyl)phenyl]ethyl}amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



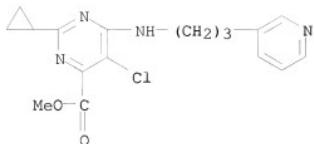
RN 1165933-92-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[{(phenylmethyl)thio]ethyl}amino-, methyl ester (CA INDEX NAME)



RN 1165933-93-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[{[(1,1-dimethylethoxy)carbonyl]-4-piperidinyl}methyl]amino-, methyl ester (CA INDEX NAME)

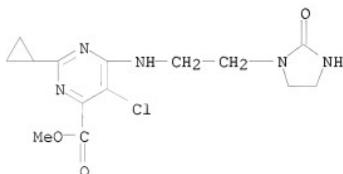


RN 1165933-94-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[{3-(3-pyridinyl)propyl}amino]-, methyl ester (CA INDEX NAME)



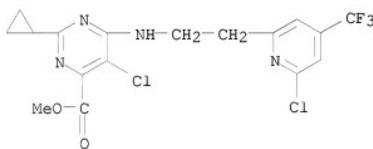
RN 1165933-95-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[{2-(2-oxo-1-imidazolidinyl)ethyl}amino]-, methyl ester (CA INDEX NAME)



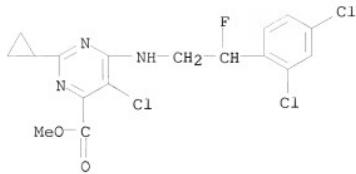
RN 1165933-96-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[{2-[6-chloro-4-(trifluoromethyl)-2-pyridinyl]ethyl}amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



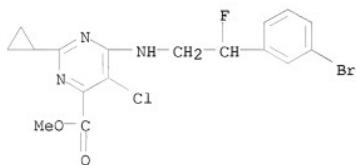
RN 1165933-97-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[{2-(2,4-dichlorophenyl)-2-fluoroethyl}amino]-, methyl ester (CA INDEX NAME)



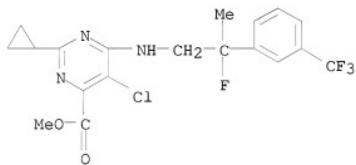
RN 1165933-98-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(2-(3-bromophenyl)-2-fluoroethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



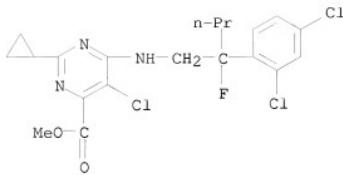
RN 1165933-99-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-fluoro-2-[3-(trifluoromethyl)phenyl]propyl]amino]-, methyl ester (CA INDEX NAME)

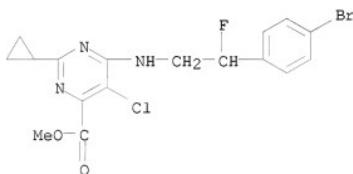


RN 1165934-00-8 CAPLUS

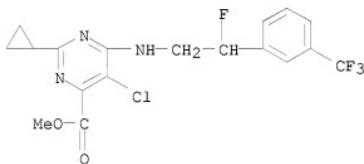
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(2,4-dichlorophenyl)-2-fluoropentyl]amino]-, methyl ester (CA INDEX NAME)



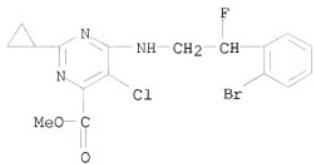
RN 1165934-01-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[(2-(4-bromophenyl)-2-fluoroethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-02-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-fluoro-2-[3-(trifluoromethyl)phenyl]ethyl]amino]-, methyl ester (CA INDEX NAME)

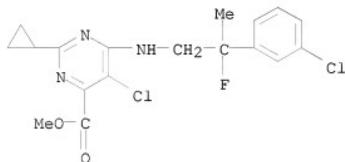


RN 1165934-03-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[(2-(2-bromophenyl)-2-fluoroethyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



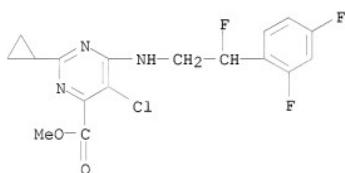
RN 1165934-04-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-(3-chlorophenyl)-2-fluoropropyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



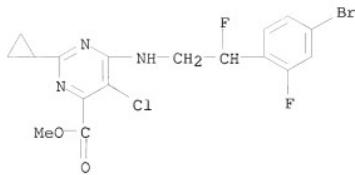
RN 1165934-05-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(2,4-difluorophenyl)-2-fluoroethyl)amino]-, methyl ester (CA INDEX NAME)



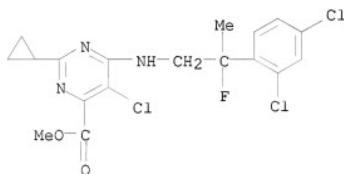
RN 1165934-06-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(2-(4-bromo-2-fluorophenyl)-2-fluoroethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



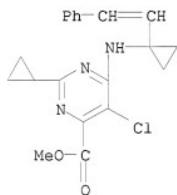
RN 1165934-07-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(2,4-dichlorophenyl)-2-fluoropropyl)amino]-, methyl ester (CA INDEX NAME)



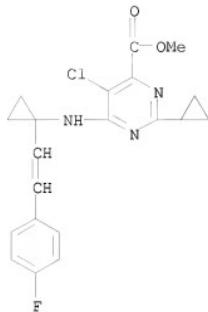
RN 1165934-08-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(2-phenylethenyl)cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



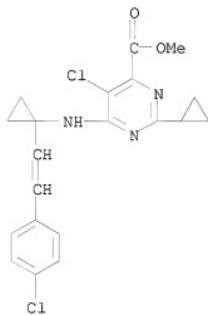
RN 1165934-09-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[2-(4-fluorophenyl)ethenyl]cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



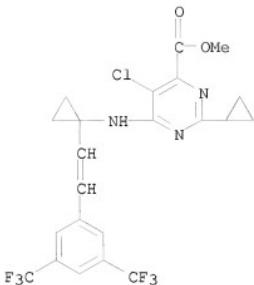
RN 1165934-10-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1-[2-(4-chlorophenyl)ethenyl]cyclopropyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



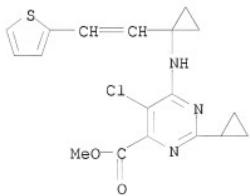
RN 1165934-11-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(1-[2-[3,5-bis(trifluoromethyl)phenyl]ethenyl]cyclopropyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



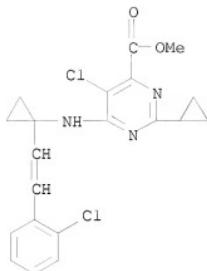
RN 1165934-12-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[2-(2-thienyl)ethenyl]cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



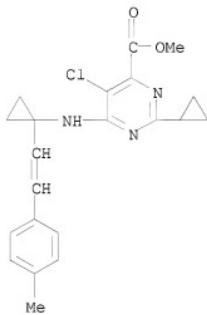
RN 1165934-13-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1-[2-(2-chlorophenyl)ethenyl]cyclopropyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



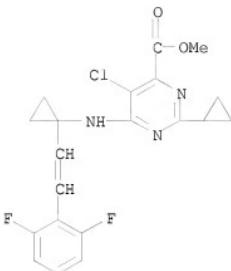
RN 1165934-14-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[2-(4-methylphenyl)ethenyl]cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



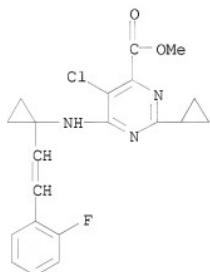
RN 1165934-15-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[2-(2,6-difluorophenyl)ethenyl]cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



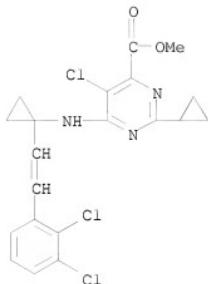
RN 1165934-16-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[2-(2-fluorophenyl)ethenyl]cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



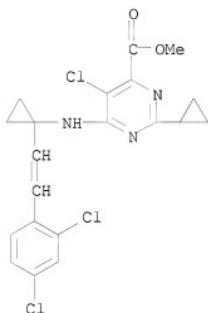
RN 1165934-17-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[2-(2,3-dichlorophenyl)ethenyl]cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



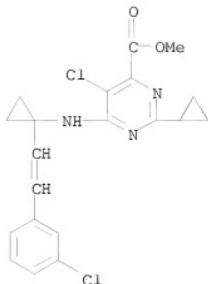
RN 1165934-18-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[2-(4-dichlorophenyl)ethenyl]cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



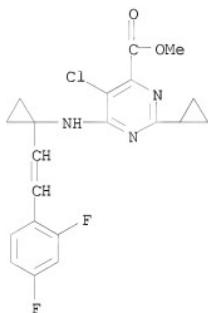
RN 1165934-19-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1-[2-(3-chlorophenyl)ethenyl]cyclopropyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



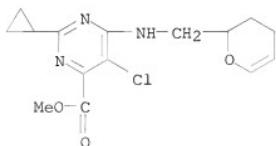
RN 1165934-20-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-[2-(2,4-difluorophenyl)ethenyl]cyclopropyl)amino]-, methyl ester (CA INDEX NAME)

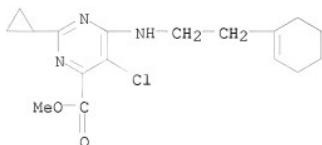


RN 1165934-21-3 CAPLUS

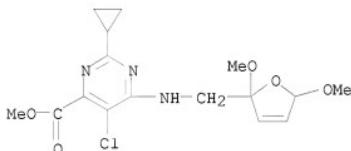
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,4-dihydro-2H-pyran-2-yl)methylamino]-, methyl ester (CA INDEX NAME)



RN 1165934-22-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-(1-cyclohexen-1-yl)ethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

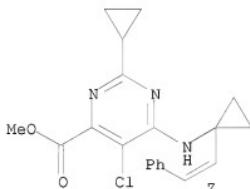


RN 1165934-23-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,5-dihydro-2,5-dimethoxy-2-furanyl)methyl]amino-, methyl ester (CA INDEX NAME)

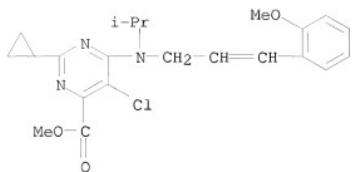


RN 1165934-24-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[1-((1Z)-2-phenylethenyl)cyclopropyl]amino]-, methyl ester (CA INDEX NAME)

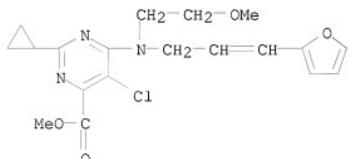
Double bond geometry as shown.



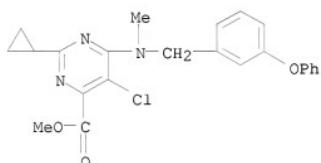
RN 1165934-25-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-(2-methoxyphenyl)-2-propen-1-yl)(1-methylethyl)amino]-, methyl ester (CA INDEX NAME)



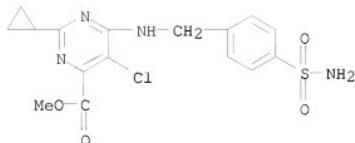
RN 1165934-26-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[3-(2-furanyl)-2-propen-1-yl](2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



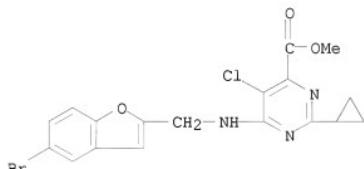
RN 1165934-27-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl((3-phenoxyphenyl)methyl)amino]-, methyl ester (CA INDEX NAME)



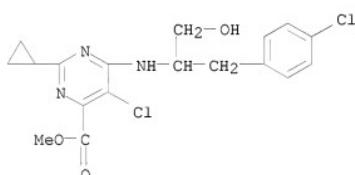
RN 1165934-28-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[[[4-(aminosulfonyl)phenyl]methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-29-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[(5-bromo-2-benzofuranyl)methyl]amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

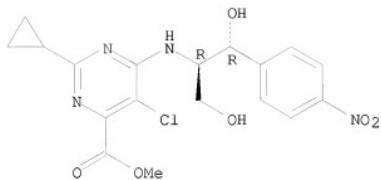


RN 1165934-30-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-(4-chlorophenyl)-1-hydroxymethylethylamino)-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1165934-31-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R,2R)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethylamino]-, methyl ester (CA INDEX NAME)

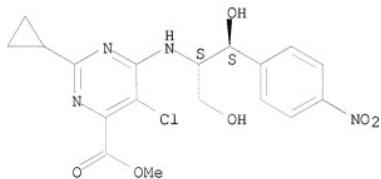
Absolute stereochemistry.



RN 1165934-32-6 CAPLUS

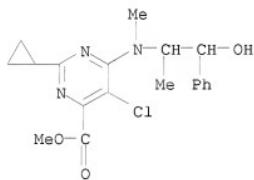
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S,2S)-2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165934-33-7 CAPLUS

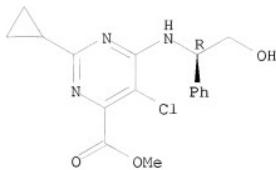
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-1-methyl-2-phenylethyl)methylamino]-, methyl ester (CA INDEX NAME)



RN 1165934-34-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R)-2-hydroxy-1-phenylethyl]amino]-, methyl ester (CA INDEX NAME)

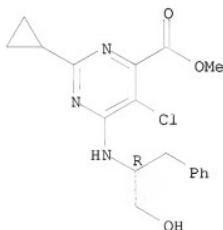
Absolute stereochemistry.



RN 1165934-35-9 CAPLUS

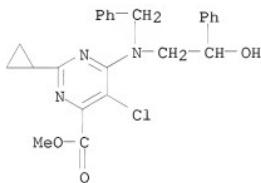
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R)-1-(hydroxymethyl)-2-phenylethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165934-36-0 CAPLUS

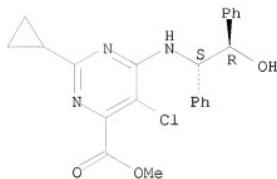
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-phenylethyl)(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165934-37-1 CAPLUS

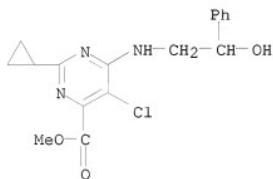
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S,2R)-2-hydroxy-1,2-diphenylethyl]amino]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165934-38-2 CAPLUS

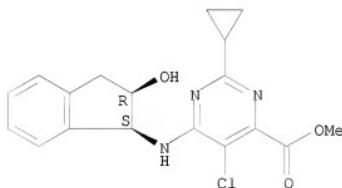
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1165934-39-3 CAPLUS

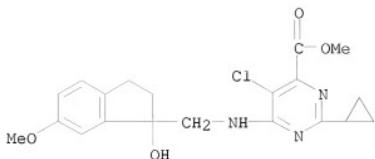
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S,2R)-2,3-dihydro-2-hydroxy-1H-inden-1-yl]amino-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1165934-40-6 CAPLUS

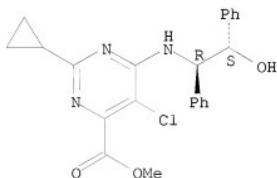
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,3-dihydro-1-hydroxy-6-methoxy-1H-inden-1-yl)methyl]amino-, methyl ester (CA INDEX NAME)



RN 1165934-41-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R,2S)-2-hydroxy-1,2-diphenylethyl]amino-, methyl ester (CA INDEX NAME)

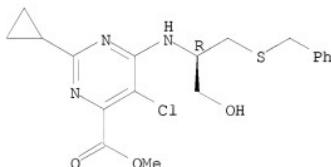
Absolute stereochemistry.



RN 1165934-42-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R)-1-(hydroxymethyl)-2-[(phenylmethyl)thio]ethyl]amino-, methyl ester (CA INDEX NAME)

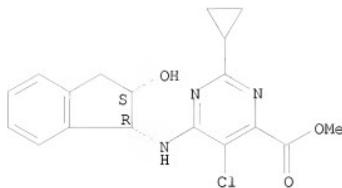
Absolute stereochemistry.



RN 1165934-43-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R,2S)-2,3-dihydro-2-hydroxy-1H-inden-1-yl]amino-, methyl ester (CA INDEX NAME)

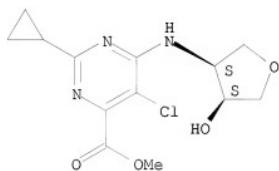
Absolute stereochemistry.



RN 1165934-44-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3S,4S)-tetrahydro-4-hydroxy-3-furanyl]amino-, methyl ester (CA INDEX NAME)

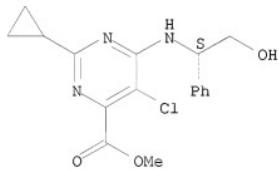
Absolute stereochemistry.



RN 1165934-45-1 CAPLUS

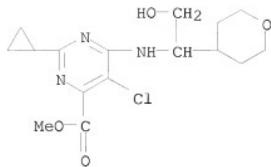
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-2-hydroxy-1-phenylethyl]amino-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



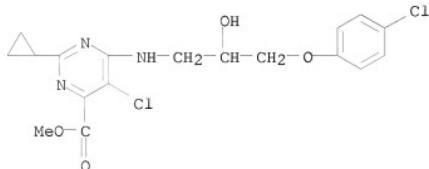
RN 1165934-46-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-1-tetrahydro-2H-pyran-4-yl)ethyl]amino-, methyl ester (CA INDEX NAME)



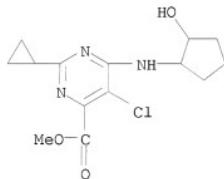
RN 1165934-47-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(3-(4-chlorophenoxy)-2-hydroxypropyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



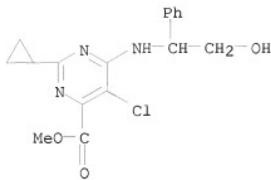
RN 1165934-48-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxycyclopentyl)amino]-, methyl ester (CA INDEX NAME)



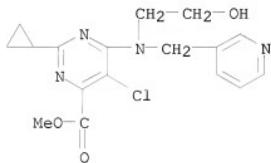
RN 1165934-49-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-1-phenylethyl)amino]-, methyl ester (CA INDEX NAME)



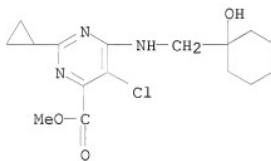
RN 1165934-50-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)(3-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



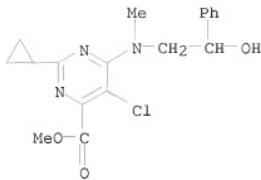
RN 1165934-51-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-hydroxycyclohexyl)methyl]amino-, methyl ester (CA INDEX NAME)



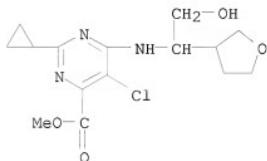
RN 1165934-52-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-phenylethyl)methylamino]-, methyl ester (CA INDEX NAME)



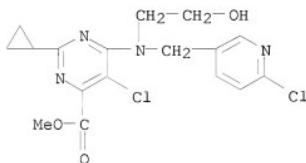
RN 1165934-53-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, methyl ester (CA INDEX NAME)



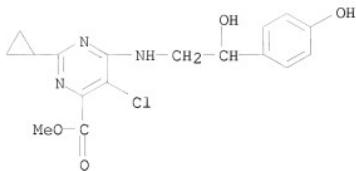
RN 1165934-54-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(6-chloro-3-pyridinyl)methyl](2-hydroxyethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



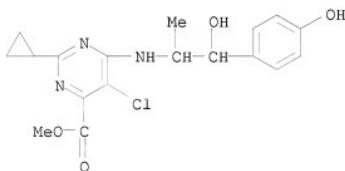
RN 1165934-55-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-(4-hydroxyphenyl)ethyl)amino]-, methyl ester (CA INDEX NAME)



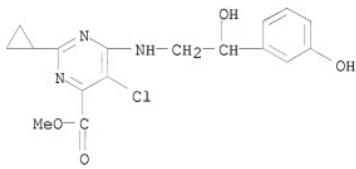
RN 1165934-56-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-(4-hydroxyphenyl)-1-methylethyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165934-57-5 CAPLUS

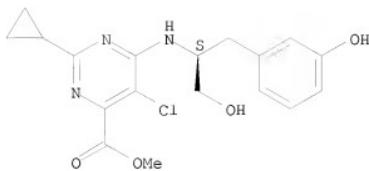
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxy-2-(3-hydroxyphenyl)ethyl]amino]-, methyl ester (CA INDEX NAME)



RN 1165934-58-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[[(1S)-2-hydroxy-1-(3-hydroxyphenyl)methyl]ethyl]amino]-, methyl ester (CA INDEX NAME)

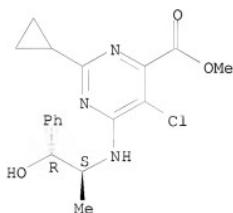
Absolute stereochemistry.



RN 1165934-59-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S,2R)-2-hydroxy-1-methyl-2-phenylethyl]amino-, methyl ester (CA INDEX NAME)

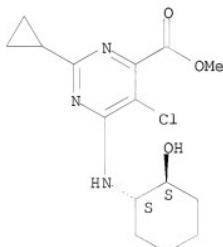
Absolute stereochemistry.



RN 1165934-60-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R,2R)-2-hydroxycyclohexyl]amino-, methyl ester, rel- (CA INDEX NAME)

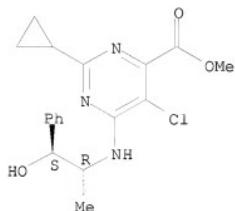
Relative stereochemistry.



RN 1165934-61-1 CAPLUS

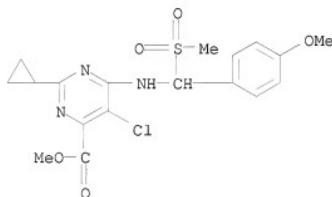
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1R,2S)-2-hydroxy-1-methyl-2-phenylethyl]amino-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.



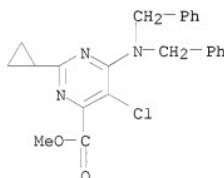
RN 1165934-62-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methoxyphenyl)(methylsulfonyl)methyl]amino-, methyl ester (CA INDEX NAME)



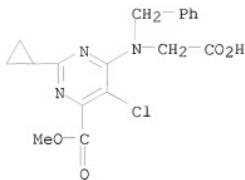
RN 1165934-64-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[bis(phenylmethyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



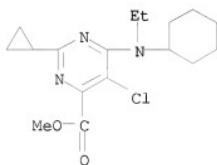
RN 1165934-65-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(carboxymethyl)(phenylmethyl)amino]-5-chloro-2-cyclopropyl-, 4-methyl ester (CA INDEX NAME)



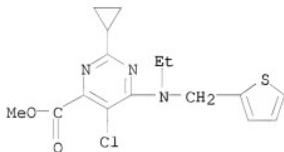
RN 1165934-66-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclohexylethylamino)-2-cyclopropyl-, methyl ester (CA INDEX NAME)



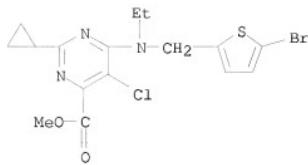
RN 1165934-67-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(2-thienylmethyl)amino]-, methyl ester (CA INDEX NAME)



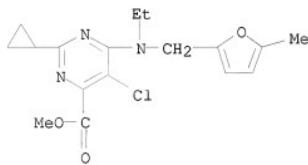
RN 1165934-69-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[[((5-bromo-2-thienyl)methyl)ethylamino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



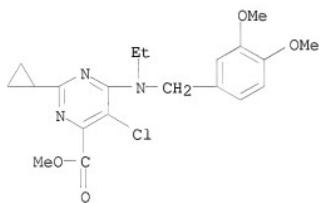
RN 1165934-70-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(5-methyl-2-furanyl)methyl]amino-, methyl ester (CA INDEX NAME)



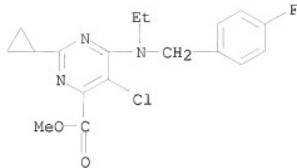
RN 1165934-71-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,4-dimethoxyphenyl)methyl]ethylamino-, methyl ester (CA INDEX NAME)



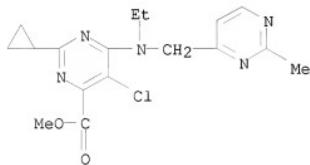
RN 1165934-72-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl[(4-fluorophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



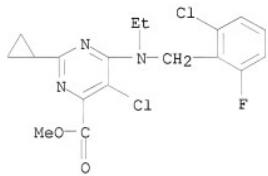
RN 1165934-73-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(2-methyl-4-pyrimidinyl)methyl]amino-, methyl ester (CA INDEX NAME)



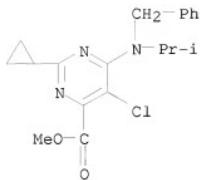
RN 1165934-74-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-chloro-6-fluorophenyl)methyl]ethylamino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



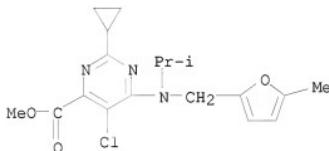
RN 1165934-76-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methylethyl)(phenylmethyl)amino]-, methyl ester (CA INDEX NAME)



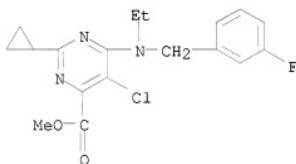
RN 1165934-77-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-methylethyl)amino]-, methyl ester (CA INDEX NAME)



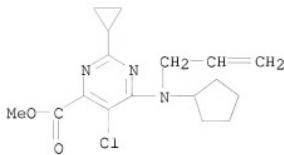
RN 1165934-78-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(ethyl(3-fluorophenyl)methyl)amino]-, methyl ester (CA INDEX NAME)

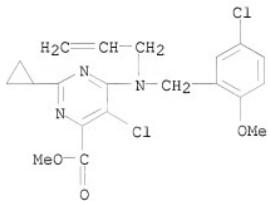


RN 1165934-79-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclopentyl-2-propen-1-ylamino)-2-cyclopropyl-, methyl ester (CA INDEX NAME)

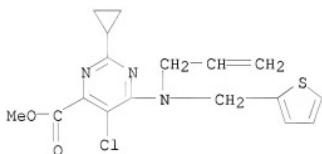


RN 1165934-80-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(5-chloro-2-methoxyphenyl)methyl]-2-propenylamino]-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)

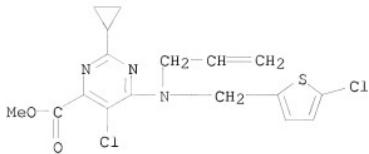
RN 1165934-82-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[2-propenyl(2-thienylmethyl)amino]-, methyl ester (CA INDEX NAME)



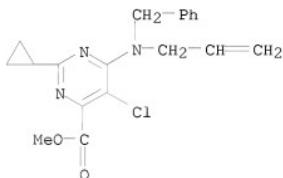
RN 1165934-83-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(5-chloro-2-thienyl)methyl]-2-propenylamino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

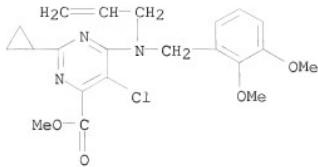


RN 1165934-85-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(phenylmethyl)-2-propen-1-ylamino]-, methyl ester (CA INDEX NAME)

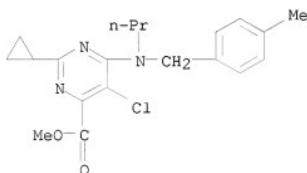


IT	1165934-86-0P	1165934-87-1P	1165934-88-2P
	1165934-91-7P	1165934-92-8P	1165934-93-9P
	1165934-94-0P	1165934-95-1P	1165934-96-2P
	1165934-98-4P	1165934-99-5P	1165935-00-1P
	1165935-01-2P	1165935-02-3P	1165935-03-4P
	1165935-04-5P	1165935-05-6P	1165935-06-7P
	1165935-07-8P	1165935-08-9P	1165935-09-0P
	1165935-10-3P	1165935-11-4P	1165935-12-5P
	1165935-13-6P	1165935-14-7P	1165935-15-8P
	1165935-18-1P	1165935-19-2P	1165935-20-5P
	1165935-21-6P	1165935-23-8P	1165935-24-9P
	1165936-12-8P	1165936-14-0P	1165936-16-2P
	1165936-17-3P	1165936-18-4P	1165936-19-5P
	1165936-21-9P	1165936-23-1P	1165936-24-2P
	1165936-25-3P	1165936-26-4P	1165936-27-5P
	1165936-28-6P	1165936-29-7P	1165936-30-0P
	1165936-31-1P	1165936-32-2P	1165936-33-3P
	1165936-34-4P	1165936-35-5P	1165936-36-6P
	1165936-40-2P	1165936-44-6P	1165936-46-8P
	1165938-19-1P	1165938-20-4P	
RL:	AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)		
	(preparation and use as herbicide)		
RN	1165934-86-0	CAPLUS	
CN	4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,3-dimethoxyphenyl)methyl]-2-propen-1-ylamino-, methyl ester (CA INDEX NAME)		



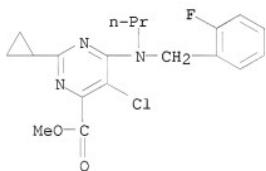
RN 1165934-87-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methylphenyl)methyl]propylamino-, methyl ester (CA INDEX NAME)



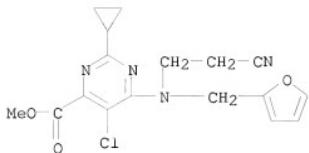
RN 1165934-88-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-fluorophenyl)methyl]propylamino-, methyl ester (CA INDEX NAME)



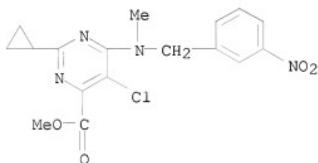
RN 1165934-91-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(2-cyanoethyl)(2-furanylmethyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



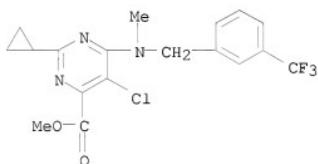
RN 1165934-92-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(3-nitrophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



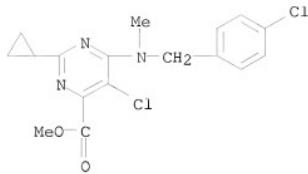
RN 1165934-93-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(3-(trifluoromethyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



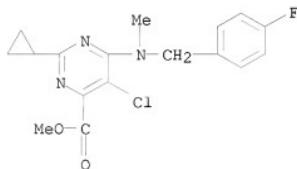
RN 1165934-94-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[[[(4-chlorophenyl)methyl]amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)



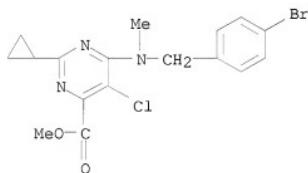
RN 1165934-95-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-fluorophenyl)methyl]methylamino-, methyl ester (CA INDEX NAME)



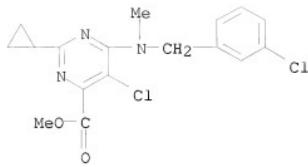
RN 1165934-96-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(4-bromophenyl)methyl]methylamino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



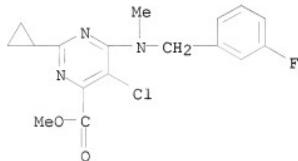
RN 1165934-98-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(3-chlorophenyl)methyl]methylamino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



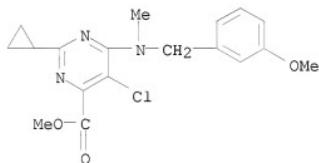
RN 1165934-99-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-fluorophenyl)methyl]methylamino-, methyl ester (CA INDEX NAME)



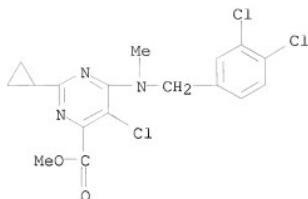
RN 1165935-00-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-methoxyphenyl)methyl]methylamino-, methyl ester (CA INDEX NAME)



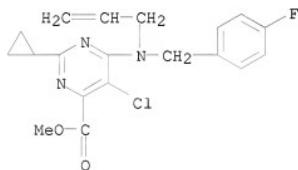
RN 1165935-01-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,4-dichlorophenyl)methyl]methylamino-, methyl ester (CA INDEX NAME)



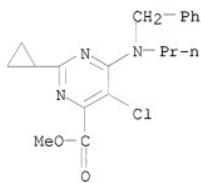
RN 1165935-02-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-fluorophenyl)methyl]-2-propen-1-ylamino]-, methyl ester (CA INDEX NAME)



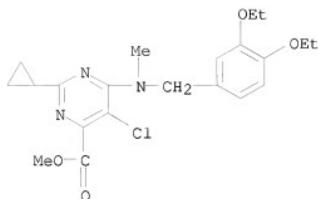
RN 1165935-03-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(phenylmethyl)propylamino]-, methyl ester (CA INDEX NAME)



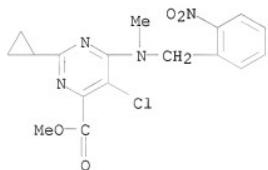
RN 1165935-04-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,4-diethoxyphenyl)methyl]methylamino]-, methyl ester (CA INDEX NAME)



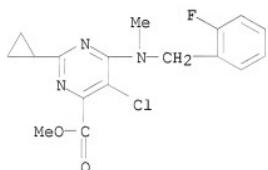
RN 1165935-05-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(2-nitrophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



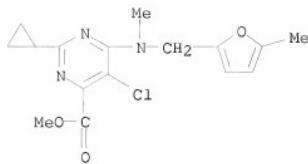
RN 1165935-06-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[((2-fluorophenyl)methyl)methylamino]-, methyl ester (CA INDEX NAME)



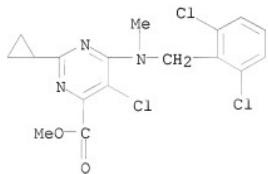
RN 1165935-07-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(5-methyl-2-furanyl)methyl]amino]-, methyl ester (CA INDEX NAME)



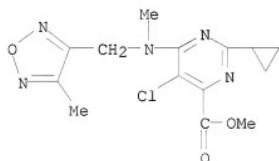
RN 1165935-08-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,6-dichlorophenyl)methyl]methylamino-, methyl ester (CA INDEX NAME)



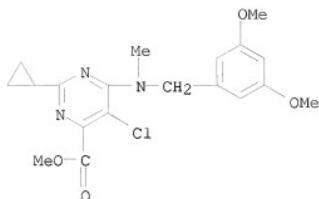
RN 1165935-09-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methyl-1,2,5-oxadiazol-3-yl)methyl]methylamino-, methyl ester (CA INDEX NAME)



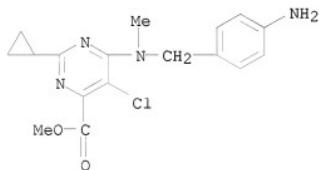
RN 1165935-10-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3,5-dimethoxyphenyl)methyl]methylamino-, methyl ester (CA INDEX NAME)



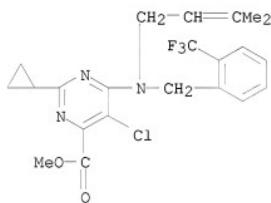
RN 1165935-11-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[(4-aminophenyl)methyl]methylamino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



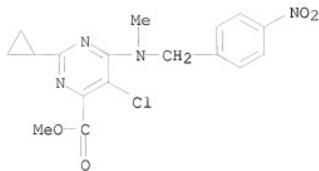
RN 1165935-12-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-methyl-2-buten-1-yl)[(2-(trifluoromethyl)phenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



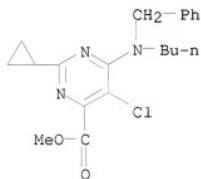
RN 1165935-13-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl[(4-nitrophenyl)methyl]amino]-, methyl ester (CA INDEX NAME)



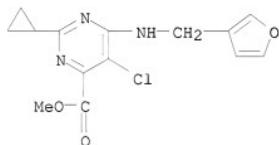
RN 1165935-14-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-(butyl(phenylmethyl)amino)-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



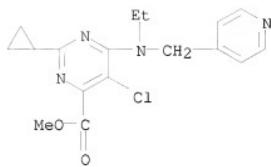
RN 1165935-15-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-furanyl)methyl]aminol-, methyl ester (CA INDEX NAME)



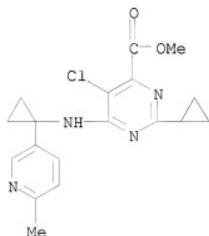
RN 1165935-18-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ethyl(4-pyridinylmethyl)amino]-, methyl ester (CA INDEX NAME)



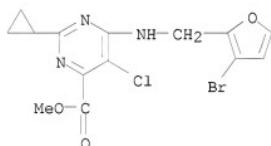
RN 1165935-19-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(6-methyl-3-pyridinyl)cyclopropyl)amino]-, methyl ester (CA INDEX NAME)



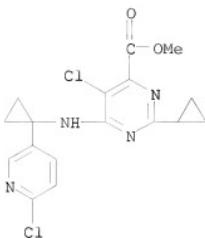
RN 1165935-20-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-[((3-bromo-2-furanyl)methyl)amino]-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



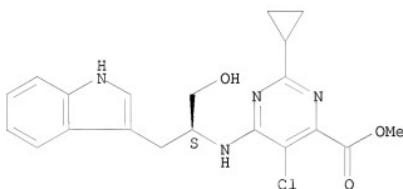
RN 1165935-21-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1-(6-chloro-3-pyridinyl)cyclopropyl)amino]-2-cyclopropyl-, methyl ester (CA INDEX NAME)

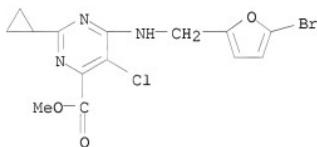


RN 1165935-23-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1S)-2-hydroxy-1-(1H-indol-3-ylmethyl)ethyl]amino-, methyl ester (CA INDEX NAME)

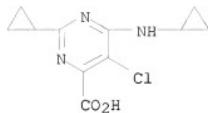
Absolute stereochemistry.



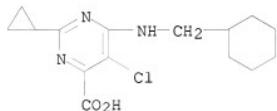
RN 1165935-24-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-[(5-bromo-2-furanyl)methyl]amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



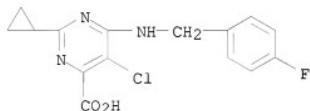
RN 1165936-12-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(cyclopropylamino)- (CA INDEX NAME)



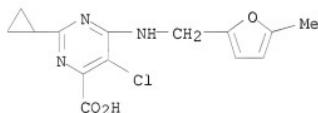
RN 1165936-14-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(cyclohexylmethyl)amino]-2-cyclopropyl- (CA INDEX NAME)



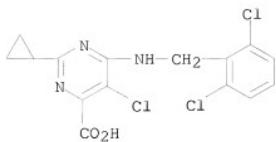
RN 1165936-16-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-fluorophenyl)methyl]amino- (CA INDEX NAME)



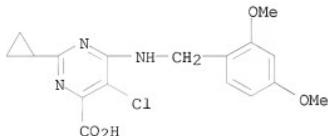
RN 1165936-17-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(5-methyl-2-furanyl)methyl]amino- (CA INDEX NAME)



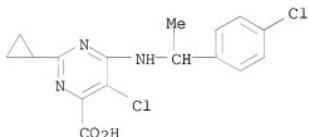
RN 1165936-18-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,6-dichlorophenyl)methyl]amino- (CA INDEX NAME)



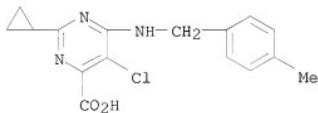
RN 1165936-19-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,4-dimethoxyphenyl)methyl]amino- (CA INDEX NAME)



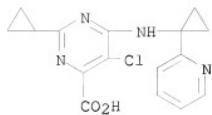
RN 1165936-21-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(1-(4-chlorophenyl)ethyl]amino]-2-cyclopropyl- (CA INDEX NAME)



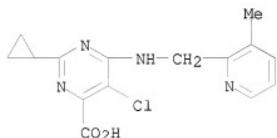
RN 1165936-23-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(4-methylphenyl)methyl]amino- (CA INDEX NAME)



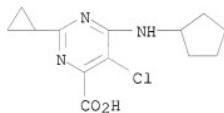
RN 1165936-24-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(2-pyridinyl)cyclopropyl)amino]- (CA INDEX NAME)



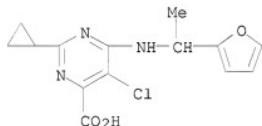
RN 1165936-25-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(3-methyl-2-pyridinyl)methyl]amino- (CA INDEX NAME)



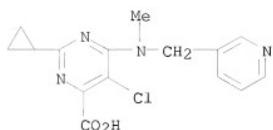
RN 1165936-26-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-(cyclopentylamino)-2-cyclopropyl- (CA INDEX NAME)



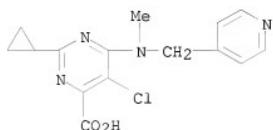
RN 1165936-27-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(1-(2-furanyl)ethyl)amino]- (CA INDEX NAME)



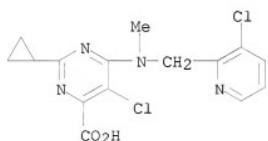
RN 1165936-28-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(3-pyridinylmethyl)amino]- (CA INDEX NAME)



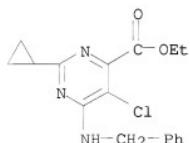
RN 1165936-29-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[methyl(4-pyridinylmethyl)amino]- (CA INDEX NAME)



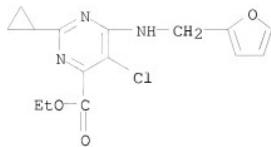
RN 1165936-30-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-6-[(3-chloro-2-pyridinyl)methyl]methylamino]-2-cyclopropyl- (CA INDEX NAME)



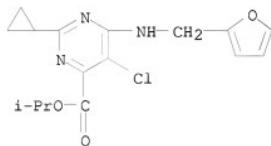
RN 1165936-31-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(phenylmethyl)amino]-, ethyl ester (CA INDEX NAME)



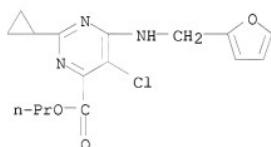
RN 1165936-32-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanylmethyl)amino]-, ethyl ester (CA INDEX NAME)



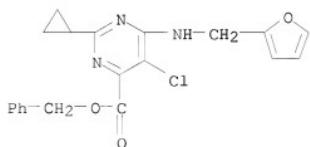
RN 1165936-33-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanyl methyl)amino]-, 1-methylethyl ester (CA INDEX NAME)



RN 1165936-34-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanyl methyl)amino]-, propyl ester (CA INDEX NAME)

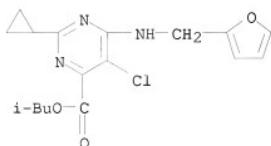


RN 1165936-35-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-furanyl methyl)amino]-, phenylmethyl ester (CA INDEX NAME)



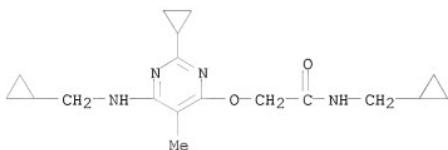
RN 1165936-36-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[*(2-furanyl)methyl*]amino-, 2-methylpropyl ester (CA INDEX NAME)



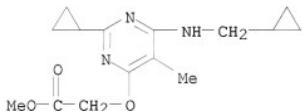
RN 1165936-40-2 CAPLUS

CN Acetamide, 2-[*(2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl)oxy*]-N-(cyclopropylmethyl)- (CA INDEX NAME)



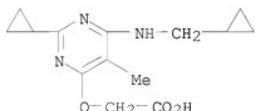
RN 1165936-44-6 CAPLUS

CN Acetic acid, 2-[*(2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl)oxy*]-, methyl ester (CA INDEX NAME)



RN 1165936-46-8 CAPLUS

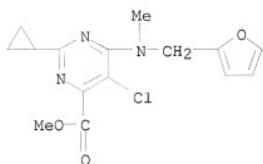
CN Acetic acid, 2-[*(2-cyclopropyl-6-[(cyclopropylmethyl)amino]-5-methyl-4-pyrimidinyl)oxy*]- (CA INDEX NAME)



RN 1165938-19-1 CAPLUS

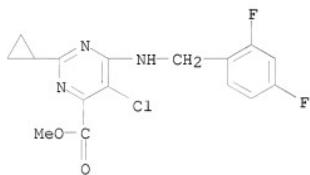
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[*(2-*

furanyl methyl)methylamino]-, methyl ester (CA INDEX NAME)



RN 1165938-20-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2,4-difluorophenyl)methylamino]-, methyl ester (CA INDEX NAME)



L10 ANSWER 5 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2009:523364 CAPLUS  
 DN 150:465781  
 TI Herbicide combinations of  
 iodo[(methoxymethyltriazinyl)carbamoyl]benzenesulfonamide or salts and  
 (hetero)arylcarboxylic acids  
 IN Hacker, Erwin; Waldraff, Christian; Schreiber, Dominique; Hills, Martin;  
 Feucht, Dieter; Mueller, Klaus-Helmut; Gesing, R. F. Ernst; Bonfig-Picard,  
 Georg

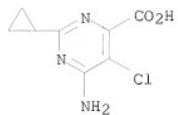
PA Bayer Cropscience AG, Germany

SO PCT Int. Appl., 57pp.  
 CODEN: PIXXD2

DT Patent  
 LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009053055	A2	20090430	WO 2008-EP8944	20081022
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GE, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 2052613	A1	20090429	EP 2007-20856	20071024
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
PRAI	EP 2007-20856	A	20071024		
OS	MARPAT 150:465781				
AB	Combinations of ≥1 herbicide selected from 2-iodo-N-[(4-methoxy-6-methyl-1,3,5-triazin-2- yl)carbamoyl]benzenesulfonamide or salts thereof and ≥1 (hetero)arylcarboxylic acid herbicide are applied jointly or sep. as preemergence or postemergence herbicides to control weeds selectively in crops such as wheat, corn, soybean, etc. and in pasture, grassland, and turf. The combinations showed synergistic effects against a broad spectrum of weeds at ≤100 g/ha.				
IT	858956-08-8, Aminocyclopyrachlor RL: AGR (Agricultural use); BSI (Biological study, unclassified); BIOL (Biological study); USES (Uses) (herbicidal combinations of iodo[(methoxymethyltriazinyl)carbamoyl]benzenesulfonamides and)				
RN	858956-08-8 CAPLUS				
CN	4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)				



L10 ANSWER 6 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2009:491510 CAPLUS  
 DN 150:472745  
 TI Preparation of aminoheterocycle-carboxamide compounds as renin inhibitors  
 IN Imaeda, Yasuhiro; Kuroita, Takanobu; Fukase, Yoshiyuki; Suzuki, Shinkichi;  
 Amano, Michiko  
 PA Takeda Pharmaceutical Company Limited, Japan  
 SO PCT Int. Appl., 423pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009051112	A1	20090423	WO 2008-JP68595	20081014
	W: AE, AG, AL, AM, AQ, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI JP 2007-268100 A 20071015

OS MARPAT 150:472745

AB Aminoheterocycle-carboxamide derivs. including  
 4-aminopyrimidine-5-carboxamide, aminocyclopenta[b]pyridine-3-carboxamide,  
 2-amino-5,6,7,8-tetrahydroquinoline-3-carboxamide,  
 aminocyclohepta[b]pyridine-3-carboxamide, and  
 3-amino-1H-pyrazole-4-carboxamide derivs. [I; R1, R2 = (un)substituted  
 carbocyclyl or heterocyclyl; or NR1R2 forms (un)substituted N-containing  
 heterocyclic ring; R3 = substituent; ring A = (un)substituted allotrope or  
 heterocyclic ring] or salts thereof or prodrugs thereof were prepared  
 Because of having an excellent renin inhibitory activity, these compds.  
 are useful as preventives/remedies for hypertension and various organ  
 disorders caused by hypertension. Thus,  
 (3R,5S)-1-(tert-butoxycarbonyl)-5-[(2-tert-butyl-4-[(1,3-oxazol-2-  
 ylmethyl)amino]pyrimidin-5-yl]carbonyl](2-methylpropyl)amino)piperidine-3-  
 carboxylic acid 125, HOBT 52, and 1-ethyl-3-(3-  
 dimethylaminopropyl)carbodiimide hydrochloride 64 mg were dissolved in 3  
 mL MeCN, followed by adding 20  $\mu$ L morpholine and 94  $\mu$ L Et3N, and the  
 resulting mixture was stirred at room temperature for 15 h to give 110 mg

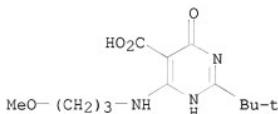
tert-Bu

(3S,5R)-3-[[2-tert-butyl-4-[(1,3-oxazol-2-ylmethyl)amino]pyrimidin-5-  
 yl]carbonyl](2-methylpropyl)amino]-5-[(morpholin-4-yl)carbonyl)piperidine-  
 1-carboxylate (II). II (108 mg) was dissolve din 2 mL 2 M HCl/ETOA and  
 stirred at room temperature for 16 h to give, after workup and acidification  
 with concentrated H2SO4 in MeOH, 2-tert-butyl-N-(2-methylpropyl)-N-[(3S,5R)-5-  
 ((morpholin-4-yl)carbonyl)piperidin-3-yl]-4-[(1,3-oxazol-2-  
 ylmethyl)amino]pyrimidine-5-carboxamide (III). H2SO4. III.H2SO4 at 1  $\mu$ M  
 inhibited 98% the conversion of angiotensinogen into angiotensin 1 in the  
 presence of renin. A tablet formulation containing compound (IV) was  
 described.

IT 1145751-52-5P, 2-tert-Butyl-4-[(3-methoxypropyl)amino]-6-oxo-1,6-dihydropyrimidine-5-carboxylic acid 1145751-54-7P,  
 2-tert-Butyl-4-[(3-methoxypropyl)amino]-6-oxo-1,6-dihydropyrimidine-5-carboxylic acid methyl ester  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of aminoheterocycle-carboxamide compds. as renin inhibitors for prevention and/or treatment of hypertension)

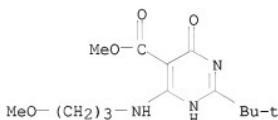
RN 1145751-52-5 CAPLUS

CN 5-Pyrimidinecarboxylic acid, 2-(1,1-dimethylethyl)-1,6-dihydro-4-[(3-methoxypropyl)amino]-6-oxo- (CA INDEX NAME)



RN 1145751-54-7 CAPLUS

CN 5-Pyrimidinecarboxylic acid, 2-(1,1-dimethylethyl)-1,6-dihydro-4-[(3-methoxypropyl)amino]-6-oxo-, methyl ester (CA INDEX NAME)

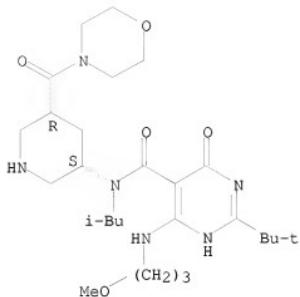


IT 1145751-62-7P, 2-tert-Butyl-4-[(3-methoxypropyl)amino]-N-(2-methylpropyl)-5-[(3S,5R)-5-[(morpholin-4-yl)carbonyl]piperidin-3-yl]-6-oxo-1,6-dihydropyrimidine-5-carboxamide 1145751-65-0P,  
 2-tert-Butyl-4-chloro-6-[(3-methoxypropyl)amino]-N-(2-methylpropyl)-N-[(3S,5R)-5-[(morpholin-4-yl)carbonyl]piperidin-3-yl]pyrimidine-5-carboxamide dihydrochloride  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of aminoheterocycle-carboxamide compds. as renin inhibitors for prevention and/or treatment of hypertension)

RN 1145751-62-7 CAPLUS

CN 5-Pyrimidinecarboxamide, 2-(1,1-dimethylethyl)-1,6-dihydro-4-[(3-methoxypropyl)amino]-N-(2-methylpropyl)-N-[(3S,5R)-5-(4-morpholinylcarbonyl)-3-piperidinyl]-6-oxo- (CA INDEX NAME)

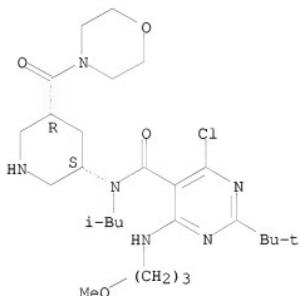
Absolute stereochemistry.



RN 1145751-65-0 CAPLUS

CN 5-Pyrimidinecarboxamide, 4-chloro-2-(1,1-dimethylethyl)-6-[(3-methoxypropyl)aminol]-N-(2-methylpropyl)-N-[(3S,5R)-5-(4-morpholinylcarbonyl)-3-piperidinyl]-, hydrochloride (1:2) (CA INDEX NAME)

Absolute stereochemistry.



● 2 HCl

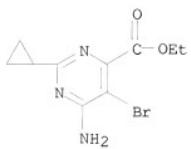
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2009:394972 CAPLUS  
 DN 150:391610  
 TI Preparation of 2-substituted-6-amino-5-alkyl-, alkenyl- or alkynyl-4-pyrimidinocarboxylic acids and 6-substituted-4-amino-3-alkyl-, alkenyl- or alkynyl- picolinic acids and their use as herbicides  
 IN Epp, Jeffrey B.; Schmitzer, Paul R.; Balko, Terry W.; Ruiz, James M.; Yerkes, Carla N.; Siddall, Thomas L.; Lo, William C.  
 PA Dow Agrosciences LLC, USA  
 SO U.S. Pat. Appl. Publ., 30pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20090088322	A1	20090402	US 2008-243469	20081001
	WO 2009046090	A1	20090409	WO 2008-US78423	20081001
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MM, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	US 2007-997210P	P	20071002		
	US 2008-49536P	P	20080501		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 150:391610  
 AB 6-Amino-4-pyrimidinocarboxylic acids having alkyl, alkenyl or alkynyl substituents in the 5-position and 4-aminopicolinic acids having alkyl, alkenyl or alkynyl substituents in the 3-position, and their amine and acid derivs. are prepared, and are potent herbicides demonstrating a broad spectrum of weed control.  
 IT 858954-76-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of 2-substituted-6-amino-5-alkyl-, alkenyl- or alkynyl-4-pyrimidinocarboxylic acids and 6-substituted-4-amino-3-alkyl-, alkenyl- or alkynyl- picolinic acids and their use as herbicides)  
 RN 858954-76-4 CAPLUS  
 CN 4-Pyrimidinocarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



L10 ANSWER 8 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2009:258541 CAPLUS

DN 150:253885

TI Granular turf-safe herbicidal compositions aminocyclopyrachlor formulated as coating on or impregnation into fertilizer granules  
 IN Baker, Robert D.; Kelly, Steven T.; Silcox, Charles A.  
 PA E. I. Du Pont de Nemours and Company, USA  
 SO PCT Int. Appl., 38pp.  
 CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009029750	A2	20090305	WO 2008-US74728	20080829
	WO 2009029750	A3	20090806		

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,  
 CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES,  
 FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,  
 KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,  
 ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,  
 PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,  
 TM, TN, TR, TT, TZ, UA, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,  
 IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK,  
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,  
 TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,  
 AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2007-966820P P 20070830

AB Disclosed is a composition comprising (a) one or more compds. selected from the compound (I) (6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, aminocyclopyrachlor) and salts, esters and thioesters thereof, coated on or impregnated into (b) a granular substrate material. The composition is particularly useful for controlling weeds in turf comprising warm-season turfgrasses without causing significant injury to the turfgrasses. Also disclosed is a method for controlling weeds in turf comprising a warm-season turfgrass without causing significant injury to the turfgrass, the method comprising applying a herbicidally effective amount of the composition

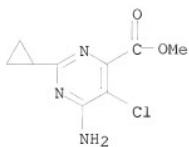
to the turf.

IT 858954-83-3D, Aminocyclopyrachlor methyl ester, fertilizer granules coated with 858956-08-8D, Aminocyclopyrachlor, fertilizer granules coated with

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

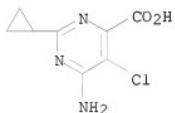
(turf-safe herbicidal compns. of aminocyclopyrachlor formulated as coating on or impregnation into fertilizer granules)

RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX  
NAME)

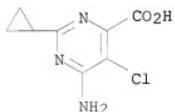


L10 ANSWER 9 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2008:1480203 CAPLUS  
 DN 150:49537  
 TI Plant genes for cytochromes P 450 conferring resistance to hydroxyphenyl pyruvate dioxygenase-inhibiting herbicides  
 IN Hawkes, Timothy Robert; Verwoerd, Bernardus Theodorus Maria  
 PA Syngenta Participations AG, Switz.  
 SO PCT Int. Appl., 79pp.  
 CODEN: PIXXD2

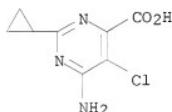
DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008150473	A2	20081211	WO 2008-US6891	20080530
	WO 2008150473	A3	20091230		
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	US 2009011936	A1	20090108	US 2008-156247	20080530
PRAI	US 2007-932560P	P	20070530		
OS	MARPAT 150:49537				
AB	Plant genes for cytochromes P 450 that are capable of using p-hydroxyphenyl pyruvate dioxygenase (HPPD)-inhibiting herbicides as substrates are described for use in improving crop plant resistance to these herbicides. HPPD inhibitors including, benzothiadiazinones, sulfonylureas, and other classes of herbicides may be metabolized by these enzymes. Maize genes conferring cross-resistance to mesotrione and nicosulfuron were mapped and cloned and shown to be encoded by the nsfl gene.				
IT	858956-08-8				
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (plant resistance to; plant genes for cytochromes P 450 conferring resistance to HPPD-inhibiting herbicides)				
RN	858956-08-8 CAPLUS				
CN	4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)				

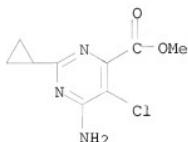


L10 ANSWER 10 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2008:1474221 CAPLUS  
 DN 150:49397  
 TI Mass spectrometric assessment and analytical methods for quantitation of the new herbicide aminocyclopyrachlor and its methyl analogue in soil and water  
 AU Nanita, Sergio C.; Pertz, Anne M.; Grant, Joann; Vogl, Emily; Devine, Timothy J.; Henze, Robert M.  
 CS Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19714, USA  
 SO Analytical Chemistry (Washington, DC, United States) (2009), 81(2), 797-808  
 CODEN: ANCHAM; ISSN: 0003-2700  
 PB American Chemical Society  
 DT Journal  
 LA English  
 AB Anal. methods have been developed for the detection and quantitation of aminocyclopyrachlor and its analog aminocyclopyrachlor Me in environmental samples. The analytes were purified from soil exts. and water samples using solid phase extraction based on mixed-mode cation exchange/reverse phase retention. Analyte identification and quant. analyses were performed by HPLC coupled to tandem mass spectrometry by an electrospray ionization source. External stds. prepared in neat solvents were used for quantitation, providing acceptable accuracy, with no matrix effects observed during method validation. The method limits of quantitation (LOQ) were 0.10 ng/mL (ppb) in water and 1.0 ng/g in soil for both compds. The limit of detection (LOD) in water was 20 ng/L (ppt) for aminocyclopyrachlor and 1 ng/L for aminocyclopyrachlor Me, while LODs in soil were 100 ng/kg and 10 ng/kg for aminocyclopyrachlor and aminocyclopyrachlor Me, resp. The stability of both compds. in various solvents was evaluated as part of method development. Tandem mass spectrometry expts. were also conducted to investigate the gas-phase fragmentation of aminocyclopyrachlor and its Me analog, and the results are reported. A statistical anal. of method validation data generated at two labs. by multiple chemists authenticates the ruggedness and good reproducibility of the anal. procedures tested.  
 IT 858956-08-8, Aminocyclopyrachlor  
 RL: ANT (Analyte); ANST (Analytical study)  
 (mass spectrometric assessment and anal. methods for quantitation of new herbicide aminocyclopyrachlor and its Me analog in soil and water)  
 RN 858956-08-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



IT 858954-83-3, Aminocyclopyrachlor methyl  
 RL: ANT (Analyte); ANST (Analytical study)  
 (mass spectrometric determination of aminocyclopyrachlor and its Me analog in soil and water)

RN 858954-83-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)  
RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2008:1300379 CAPLUS

DN 149:513856

TI Preparation of nitrogenated fused ring derivatives as antagonists of gonadotropin releasing hormone (GnRh)

IN Yonekubo, Shigeru; Miyagi, Takashi; Ohno, Kohsuke; Kambara, Mikie; Fushimi, Nobuhiko

PA Kissei Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 254pp.

CODEN: PIXXD2

DT Patent

LA Japanese

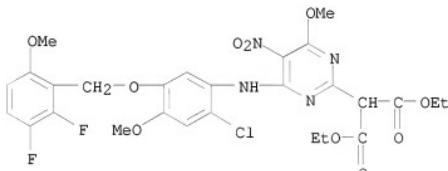
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008129994	A1	20081030	WO 2008-JP57390	20080416
	W: AE, AG, AL, AM, AQ, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	AU 2008241853	A1	20081030	AU 2008-241853	20080416
	CA 2680769	A1	20081030	CA 2008-2680769	20080416
	EP 2143724	A1	20100113	EP 2008-740471	20080416
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR				
PRAI	JP 2007-108926	A	20070418		
	WO 2008-JP57390	W	20080416		
OS	MARPAT 149:513856				
AB	Nitrogenated fused ring derivs. such as 1,3-dihydro-2H-imidazo[4,5-b]pyridin-2-one and 7,9-dihydro-8H-purin-8-one derivs. [1; ring A or B = aryl or heteroaryl; R1 R2 = halo, cyano, NO2, each (un)substituted lower alkyl, lower alkenyl, lower alkynyl, lower alkylsulfonyl, lower alkylsulfonyl, aryl, heteroaryl, cycloalkyl, heterocycloalkyl, OH, SH, NH2, or SO2NH2, acyl, etc.; R2 = H, (un)substituted lower alkyl; m = an integer of 0-3; n = an integer of 0-2; E = O, S; U = a single bond (un)substituted lower alkylene; X = Y, CO-Y, SO2-Y, S-L-Y, O-L-Y, CO-L-Y, CO2-L-Y, SO2-L-Y, S-Z, O-Z, CO2-Z, N(Q)-L-Y, N(Q)-CO-Y, N(Q)-SO2-Y, N(Q)-L-CO-Y, N(Q)-L-SO2-Y, N(Q)-CO-L-Y, N(Q)-SO2-L-Y; L = (un)substituted lower alkylene, Y = Z, (un)substituted NH2; Z = cycloalkyl, heterocycloalkyl, aryl, or heteroaryl each optionally fused and/or substituted; Q = H, acyl, each (un)substituted alkyl, aryl, heteroaryl, cycloalkyl, or heterocycloalkyl, etc.], prodrugs thereof or pharmaceutically acceptable salts thereof were prepared. These compds. are antagonists of gonadotropin releasing hormone (GnRh), also called as LH releasing hormone (LRRH) and are as prophylactic or therapeutic agents for a sex hormone-dependent disease, reproduction regulators, contraceptive agents, fertility drugs, or prophylactic agents for recurrence of cancer after surgery of sex hormone-dependent cancer. The sex hormone-dependent				

disease includes prostatic hypertrophy, hysteromyoma, endometriosis, uterine fibroma, true precocious puberty, amenorrhea, premenstrual syndromes, dysmenorrhea, polycystic ovary syndromes, lupus erythematosus, hypertrichosis, dwarfism, sleep disorder, acne, alopecia, Alzheimer's disease, sterility, irritable bowel syndrome, prostate cancer, uterine cancer, ovarian cancer, breast cancer, or pituitary tumor. Thus, azidolysis of 2-chloro-4-[2-chloro-5-(2,3-difluoro-6-methoxybenzyloxy)-4-methoxyphenylamino]-6-methylpyrimidine-5-carboxylic acid Me ester with NaN<sub>3</sub> in aqueous DMF solution at 60°C for 2 h, followed by hydrogenation over 10% Pt-C in a mixture for THF and MeOH under H atmospheric at room temperature for 3

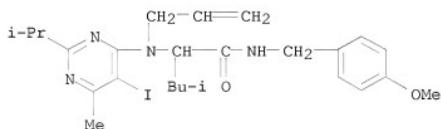
h, saponification with NaOH in aqueous THF solution at 60°C for 2 h, and acidification with 1 M aqueous HCl solution gave 2-amino-4-[2-chloro-5-(2,3-difluoro-6-methoxybenzyloxy)-4-methoxyphenylamino]-6-methylpyrimidine-5-carboxylic acid (II). II was heated with diphenylphosphoryl azide and Et<sub>3</sub>N in a mixture of 1,4-dioxane and THF at 100°C overnight to give 2-amino-9-[2-chloro-5-(2,3-difluoro-6-methoxybenzyloxy)-4-methoxyphenyl]-6-methyl-7,9-dihydro-8H-purin-8-one (III). III and the compound (IV) in vitro showed IC<sub>50</sub> values of 36 and 15 μM, resp., for inhibiting the GnRh-stimulated mobility of cellular calcium in HEK 293 cell stably expressing human GnRh.

- IT 1073438-29-5P, Diethyl 2-[4-[(2-Chloro-5-[(2,3-difluoro-6-methoxybenzyl)oxy]-4-methoxyphenyl]amino]-6-methoxy-5-nitropyrimidin-2-yl]malonate  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of nitrogenated fused ring derivs. as antagonists of gonadotropin releasing hormone (GnRh))  
 RN 1073438-29-5 CAPLUS  
 CN Propanedioic acid, 2-[4-[(2-chloro-5-[(2,3-difluoro-6-methoxyphenyl)methoxy]-4-methoxyphenyl)amino]-6-methoxy-5-nitro-2-pyrimidinyl]-, 1,3-diethyl ester (CA INDEX NAME)

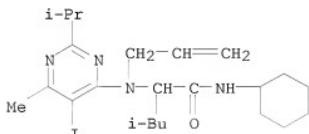


RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

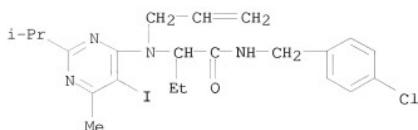
L10 ANSWER 12 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2008:837528 CAPLUS  
 DN 149:200740  
 TI New MCR-Heck-Isomerization Cascade toward Indoles  
 AU El Kaim, Laurent; Gizzi, Marion; Grimaud, Laurence  
 CS Laboratoire Chimie et Procedes, Ecole Nationale Supérieure de Techniques  
 Avancées, Paris 75739 Fr.  
 SO Organic Letters (2008), 10(16), 3417-3419  
 CODEN: ORLEF7; ISSN: 1523-7060  
 PB American Chemical Society  
 DT Journal  
 LA English  
 OS CASREACT 149:200740  
 AB The use of ortho-iodonitrophenol in Ugi-Smiles reaction to afford adducts such as I, coupled with Heck cyclization gives new access to indole scaffolds, e.g., II. The sequence can be performed in a one-pot reaction if the residual isocyanide is neutralized prior to the addition of the palladium catalyst.  
 IT 1040741-70-5P 1040741-71-6P 1040741-72-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of [allyl(iodoaryl)amino]amides via Ugi-Smiles coupling between aldehydes, allylamines, isocyanides, and aryl or heteroaryl phenols)  
 RN 1040741-70-5 CAPLUS  
 CN Pentanamide, 2-[5-iodo-6-methyl-2-(1-methylethyl)-4-pyrimidinyl]-2-propen-1-ylamino-N-[(4-methoxyphenyl)methyl]-4-methyl- (CA INDEX NAME)



RN 1040741-71-6 CAPLUS  
 CN Pentanamide, N-cyclohexyl-2-[5-iodo-6-methyl-2-(1-methylethyl)-4-pyrimidinyl]-2-propen-1-ylamino]-4-methyl- (CA INDEX NAME)



RN 1040741-72-7 CAPLUS  
 CN Butanamide, N-[(4-chlorophenyl)methyl]-2-[5-iodo-6-methyl-2-(1-methylethyl)-4-pyrimidinyl]-2-propen-1-ylamino- (CA INDEX NAME)



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)  
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2008:734540 CAPLUS  
 DN 149:47019  
 TI Herbicidal mixtures comprising pyrimidinecarboxylates and dihydroisoxazoles  
 IN Armel, Gregory R.; Hong, Wonpyo  
 PA E. I. Du Pont De Nemours and Company, USA  
 SO PCT Int. Appl., 36pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2008073369	A1	20080619	WO 2007-US25224	20071210
W: AE, AG, AL, AM, AR, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI US 2006-874359P P 20061212

OS MARPAT 149:47019

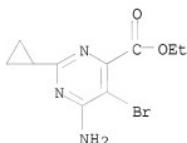
AB A herbicidal mixture comprises (a) ≥1 herbicidal pyrimidine I (R1 = cyclopropyl, 4-bromophenyl, 4-chlorophenyl; X = Cl, Br; R2 = H, C1-14 alkyl, C2-14 alkoxyalkyl, C3-14 alkoxyalkoxyalkyl, C2-14 hydroxyalkyl, benzyl) or N-oxide or salt thereof and (b) ≥1 herbicidal compound the formula II (R3 = H, halo, C1-6 alkyl, C2-6 alkoxyalkyl, etc.; R4 = H, halo, C1-6 alkyl, haloalkyl, etc.; W = O, NR5; R5 = H, halo, CN, etc.; G = Ph or heteroaryl, optionally substituted) or N-oxide or salt thereof. The growth of undesired vegetation is controlled by contacting the vegetation or its environment with a herbicidally effective amount of a composition comprising a mixture of the invention and optionally further comprising ≥1 other herbicide. Thus, I (R1 = cyclopropyl, R2 = Me, X = Cl) + pyroxasulfone at 50 + 12.5 g/ha completely controlled velvetleaf (*Abutilon theophrasti*) and redroot pigweed (*Amaranthus retroflexus*), with no effect on corn in a greenhouse trial. The observed effect for both weeds was greater than the expected effect.

IT 858954-76-4D, mixts. containing 858954-77-5D, mixts.  
 containing 858954-79-7D, Ethyl  
 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-82-2D, mixts. containing 858954-83-3D, Methyl  
 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-96-8D, mixts. containing 858955-48-3D, mixts.  
 containing 858955-49-4D, mixts. containing 858955-50-7D,  
 mixts. containing 858955-51-8D, mixts. containing  
 858955-86-9D, mixts. containing 858956-08-8D,  
 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, mixts. containing 858956-12-4D, mixts. containing 858956-14-6D, mixts.  
 containing 858956-15-7D, mixts. containing 858956-43-1D,  
 mixts. containing 858956-44-2D, mixts. containing

858956-45-3D, mixts. containing 858956-46-4D, mixts.  
 containing 945623-25-6D, mixts. containing 1032351-24-8  
 1032351-26-0 1032351-28-2 1032351-30-6  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (herbicidal mixts. comprising pyrimidinecarboxylates and  
 dihydroisoxazoles and optionally further herbicide)

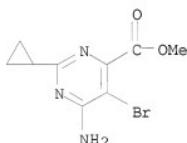
RN 858954-76-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



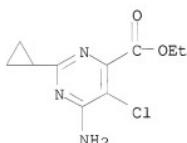
RN 858954-77-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



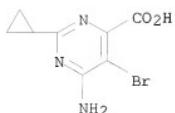
RN 858954-79-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)

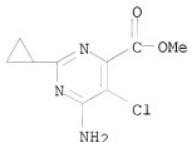


RN 858954-82-2 CAPLUS

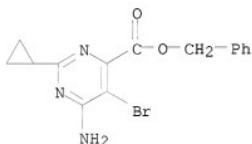
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX  
 NAME)



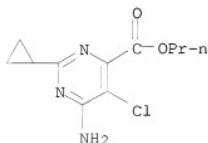
RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



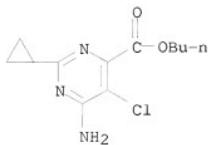
RN 858954-96-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester  
 (CA INDEX NAME)



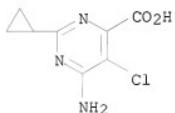
RN 858955-48-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester  
 (CA INDEX NAME)



RN 858955-49-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester  
 (CA INDEX NAME)

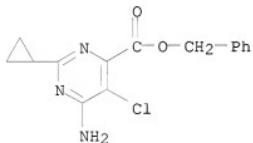


RN 858955-50-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt  
(1:1) (CA INDEX NAME)

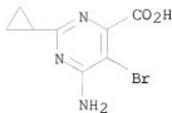


● Na

RN 858955-51-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)

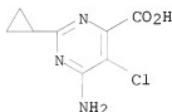


RN 858955-86-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt  
(1:1) (CA INDEX NAME)

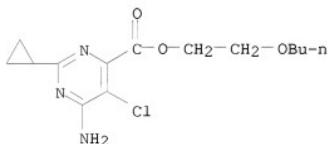


● Na

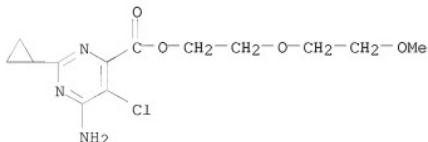
RN 858956-08-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



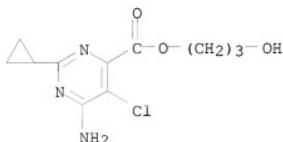
RN 858956-12-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-butoxyethyl ester (CA INDEX NAME)



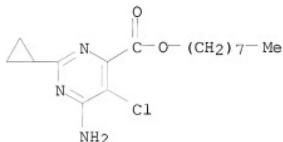
RN 858956-14-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



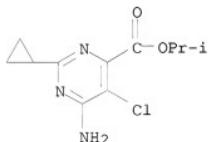
RN 858956-15-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
3-hydroxypropyl ester (CA INDEX NAME)



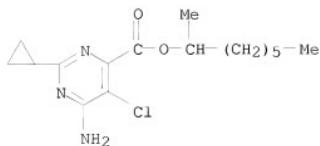
RN 858956-43-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
(CA INDEX NAME)



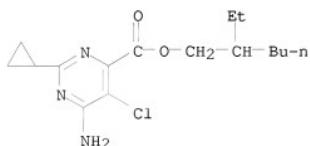
RN 858956-44-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylethyl ester (CA INDEX NAME)



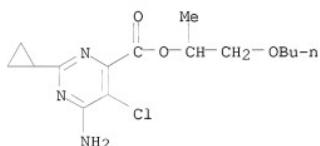
RN 858956-45-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylheptyl ester (CA INDEX NAME)



RN 858956-46-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl ester (CA INDEX NAME)



RN 945623-25-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-butoxy-1-methylethyl ester (CA INDEX NAME)

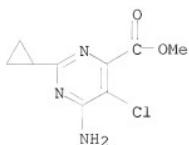


RN 1032351-24-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 3-[(5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl)methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX NAME)

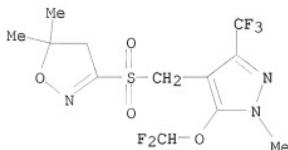
CM 1

CRN 858954-83-3

CMF C9 H10 C1 N3 O2



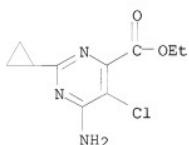
CM 2

CRN 447399-55-5  
CMF C12 H14 F5 N3 O4 S

RN 1032351-26-0 CAPLUS

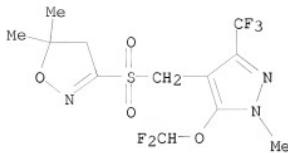
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester,  
mixt. with 3-[[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-  
pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX  
NAME)

CM 1

CRN 858954-79-7  
CMF C10 H12 Cl N3 O2

CM 2

CRN 447399-55-5  
CMF C12 H14 F5 N3 O4 S



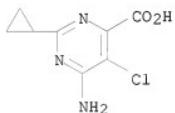
RN 1032351-28-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with  
3-[(5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-  
yl)methylsulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX NAME)

CM 1

CRN 858956-08-8

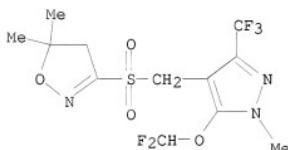
CMF C8 H8 Cl N3 O2



CM 2

CRN 447399-55-5

CMF C12 H14 F5 N3 O4 S



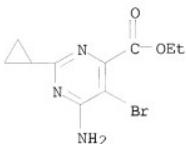
RN 1032351-30-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester,  
mixt. with 3-[(5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-  
pyrazol-4-yl)methylsulfonyl]-4,5-dihydro-5,5-dimethylisoxazole (CA INDEX  
NAME)

CM 1

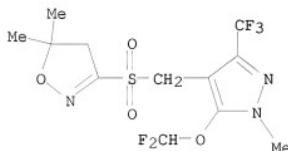
10/581, 897 (amended)

CRN 858954-76-4  
CMF C10 H12 Br N3 O2



CM 2

CRN 447399-55-5  
CMF C12 H14 F5 N3 O4 S



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 14 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 20071204767 CAPLUS  
 DN 147:502388  
 TI Preparation of piperazine derivatives as hepatitis C virus (HCV) polymerase inhibitors  
 IN Abe, Hiroyuki; Tanaka, Masahiro; Sugimoto, Kazuyuki; Suma, Akira; Yokota, Masahiro; Shiozaki, Makoto; Iio, Kiyosei; Ueyama, Kazuhito; Motoda, Dai; Noguchi, Toru; Adachi, Tsuyoshi; Tsuruha, Junichiro; Doi, Satoki  
 PA Japan Tobacco Inc., Japan  
 SO PCT Int. Appl., 1027pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007119889	A1	20071025	WO 2007-JP58901	20070418
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US	20080081818	A1	20080403	US 2007-736064	20070417
AU	2007239285	A1	20071025	AU 2007-239285	20070418
CA	2649521	A1	20071025	CA 2007-2649521	20070418
EP	2009004	A1	20081231	EP 2007-742336	20070418
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
MX	2008013545	A	20081029	MX 2008-13545	20081020
KR	2009008362	A	20090121	KR 2008-728129	20081118
IN	2008CN06273	A	20090327	IN 2008-CN6273	20081118
CN	101472902	A	20090701	CN 2007-80022736	20081218
PRAI	JP 2006-115008	A	20060418		
	US 2006-796565P	P	20060501		
	WO 2007-JP58901	W	20070418		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

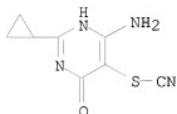
OS MARPAT 147:502388  
 AB The title compds. I [ring A = (un)substituted carbocyclic ring, (un)substituted heterocyclic ring; n = integer of 1 - 6; ring B = (un)substituted carbocyclic ring, (un)substituted heterocyclic ring; R = H, COR1, CO2R2, etc.; R1, R2 = H, (un)substituted alkyl] are prepared Thus, (R)-1-(4-trifluoromethylbenzenesulfonyl)piperazine-2-carboxylic acid 4-isopropylbenzylamide hydrochloride was prepared in a 3-step process starting from (R)-piperazine-2-carboxylic acid 2HCl salt, di-tert-Bu dicarbonate, and 4-trifluoromethylbenzenesulfonyl chloride. The HCV polymerase inhibiting activity of compds. of this invention was demonstrated. A formulation containing a title compound is given.  
 IT 954388-43-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of piperazine derivs. as hepatitis C virus polymerase  
inhibitors)

RN 954388-43-3 CAPLUS

CN Thiocyanic acid, 4-amino-2-cyclopropyl-1,6-dihydro-6-oxo-5-pyrimidinyl  
ester (CA INDEX NAME)



RE.CNT 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 15 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2007:1204062 CAPLUS  
 DN 147:463424  
 TI Herbicidal mixtures comprising pyrimidine derivatives  
 IN Armel, Gregory Russell; Casini, Mark S.; Cotterman, Josephine Cecilia;  
 Hidalgo, Edison; Link, Michael L.; Rardon, Patrick L.; Saunders, David  
 William; Strachan, Stephen D.  
 PA E. I. du Pont de Nemours and Company, USA  
 SO PCT Int. Appl., 123 pp.

CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

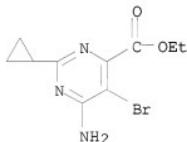
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007120706	A2	20071025	WO 2007-US8930	20070410
	WO 2007120706	A3	20080529		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	AU 2007238732	A1	20071025	AU 2007-238732	20070410
	CA 2646143	A1	20071025	CA 2007-2646143	20070410
	EP 2003972	A2	20081224	EP 2007-755262	20070410
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
	JP 2009533448	T	20090917	JP 2009-505457	20070410
	IN 2008DN07403	A	20080926	IN 2008-DN7403	20080829
	MX 2008012995	A	20081017	MX 2008-12995	20081008
	CN 101420852	A	20090429	CN 2007-80013032	20081010
	KR 2009024120	A	20090306	KR 2008-727364	20081107
PRAI	US 2006-790659P	P	20060410		
	US 2006-852139P	P	20061017		
	WO 2007-US8930	W	20070410		
OS	MARPAT 147:463424				
AB	Disclosed is a herbicidal mixture comprising a pyrimidine derivative I (R1 = cyclopropyl, 4-bromophenyl or 4-chlorophenyl; X = Cl or Br; R2 = H, alkyl, alkoxyalkyl, alkoxyalkoxyalkyl, hydroxyalkyl or benzyl) or I N-oxides or salts, and at least one addnl. herbicide or herbicide safener selected from ACCase inhibitors, AHAS inhibitors, photosystem II inhibitors, photosystem I electron diverters, PPO inhibitors, EPSP synthase inhibitors, GS inhibitors, VLCFA inhibitors, auxin mimics, auxin transport inhibitors, and other herbicides selected from flamprop-M-Me, flamprop-M-iso-Pr, difenzoquat, DSMA, MSMA, bromobutide, flurenol, cinmethylin, cumyluron, dazomet, dymron, methyldymron, etobenzanid, fosamine-ammonium, isoxaxiflutole, asulam, clomazone, mesotrione, metam, oxaziclomefone, oleic acid, pelargonic acid and pyributicarb, as well as herbicide safeners selected from benoxacor,				

1-bromo-4-[(chloromethyl)sulfonyl]benzene, cloquintocet-mexyl, cyometrinil, dichloromid, 2-(dichloromethyl)-2-methyl-1,3-dioxolane, fenchlorazole-Et, fenclorim, flurazole, fluxofenim, furilazole, isoxadifen-Et, mefenpyr-diethyl, methoxyphenone, naphthalic anhydride and oxabetrinil, and their salts.

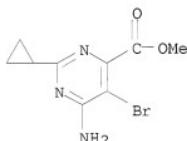
IT 858954-76-4D, mixts. containing 858954-77-5D, mixts.  
 containing 858954-79-7D, Ethyl  
 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-82-2D, mixts. containing 858954-83-3D, Methyl  
 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate, mixts. containing 858954-96-8D, mixts. containing 858955-48-3D, mixts.  
 containing 858955-49-4D, mixts. containing 858955-50-7D,  
 mixts. containing 858955-51-8D, mixts. containing  
 858955-86-9D, mixts. containing 858956-08-8D,  
 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid, mixts. containing 858956-12-4D, mixts. containing 858956-14-6D, mixts.  
 containing 858956-15-7D, mixts. containing 858956-43-1D,  
 mixts. containing 858956-44-2D, mixts. containing  
 858956-45-3D, mixts. containing 858956-46-4D, mixts.  
 containing 945623-25-6D, mixts. containing  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (herbicidal compns.)

RN 858954-76-4 CAPLUS

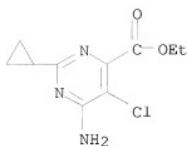
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



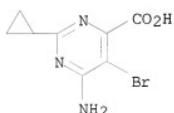
RN 858954-77-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



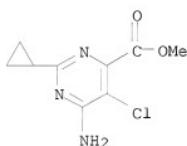
RN 858954-79-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



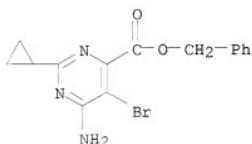
RN 858954-82-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



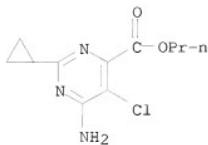
RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



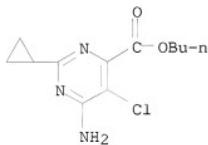
RN 858954-96-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



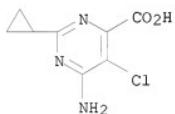
RN 858955-48-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



RN 858955-49-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester  
(CA INDEX NAME)

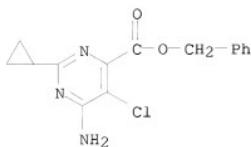


RN 858955-50-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt  
(1:1) (CA INDEX NAME)

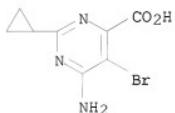


● Na

RN 858955-51-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)

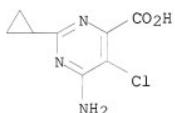


RN 858955-86-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt  
(1:1) (CA INDEX NAME)

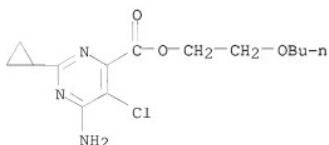


● Na

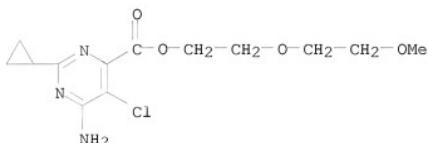
RN 858956-08-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



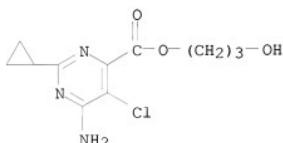
RN 858956-12-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-butoxyethyl ester (CA INDEX NAME)



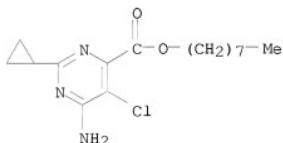
RN 858956-14-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



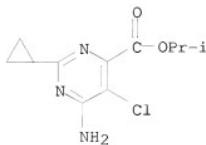
RN 858956-15-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
3-hydroxypropyl ester (CA INDEX NAME)



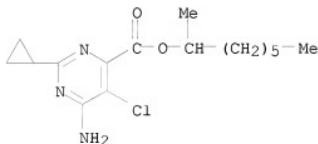
RN 858956-43-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
(CA INDEX NAME)



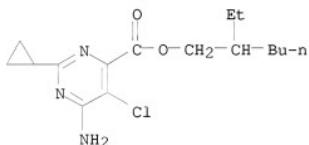
RN 858956-44-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylethyl ester (CA INDEX NAME)



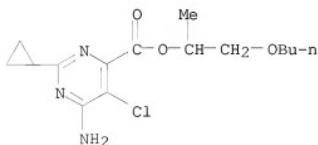
RN 858956-45-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylheptyl ester (CA INDEX NAME)



RN 858956-46-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
 ester (CA INDEX NAME)



RN 945623-25-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 2-butoxy-1-methylethyl ester (CA INDEX NAME)



IT 952660-55-8 952660-56-9 952660-59-2

952660-60-5	952660-62-7	952660-63-8
952660-64-9	952660-65-0	952660-66-1
952660-67-2	952660-69-4	952660-70-7
952660-71-8	952660-72-9	952660-73-0
952660-74-1	952660-75-2	952660-76-3
952660-77-4	952660-78-5	952660-79-6
952660-80-9	952660-81-0	952660-82-1
952660-83-2	952660-84-3	952660-85-4
952660-86-5	952660-87-6	952660-88-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(herbicidal mixture)

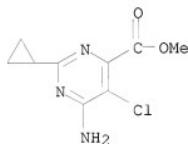
RN 952660-55-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 6-chloro-N2-ethyl-N4-(1-methylethyl)-1,3,5-triazine-2,4-diamine (CA INDEX NAME)

CM 1

CRN 858954-83-3

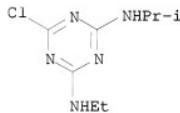
CMF C9 H10 Cl N3 O2



CM 2

CRN 1912-24-9

CMF C8 H14 Cl N5



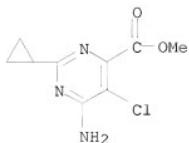
RN 952660-56-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-N-(2-ethyl-6-methylphenyl)-N-[(1S)-2-methoxy-1-methylethyl]acetamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

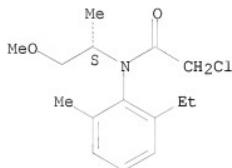
CMF C9 H10 Cl N3 O2



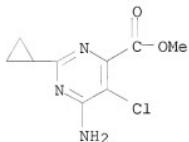
CM 2

CRN 87392-12-9  
CMF C15 H22 Cl N O2

Absolute stereochemistry. Rotation (-).

RN 952660-59-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with (2R)-2-[4-[(5-chloro-3-fluoro-2-pyridinyl)oxyl]phenoxy]propanoic acid (CA INDEX NAME)

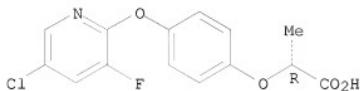
CM 1

CRN 858954-83-3  
CMF C9 H10 Cl N3 O2

CM 2

CRN 114420-56-3  
CMF C14 H11 Cl F N O4

Absolute stereochemistry.



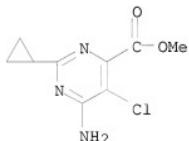
RN 952660-60-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

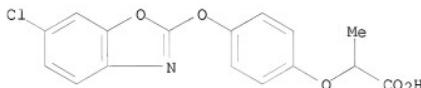
CMF C9 H10 Cl N3 O2



CM 2

CRN 95617-09-7

CMF C16 H12 Cl N O5



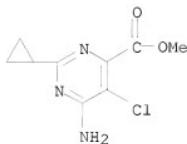
RN 952660-62-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester, mixt. with methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate (CA INDEX NAME)

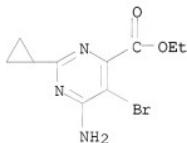
CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2



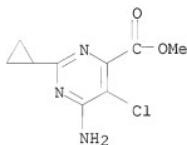
CM 2

CRN 858954-76-4  
CMF C10 H12 Br N3 O2

RN 952660-63-8 CAPLUS

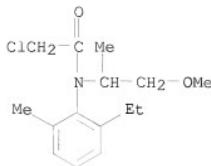
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide (CA INDEX NAME)

CM 1

CRN 858954-83-3  
CMF C9 H10 Cl N3 O2

CM 2

CRN 51218-45-2  
CMF C15 H22 Cl N O2



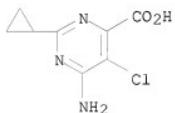
RN 952660-64-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with  
6-chloro-N<sub>2</sub>-ethyl-N<sub>4</sub>-(1-methylethyl)-1,3,5-triazine-2,4-diamine (CA INDEX  
NAME)

CM 1

CRN 858956-08-8

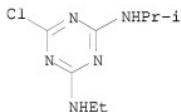
CMF C8 H8 Cl N3 O2



CM 2

CRN 1912-24-9

CMF C8 H14 Cl N5



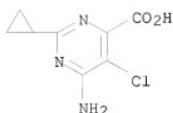
RN 952660-65-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with  
2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide  
(CA INDEX NAME)

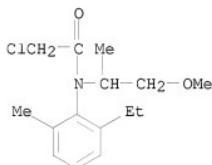
CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2



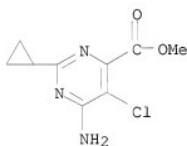
CM 2

CRN 51218-45-2  
CMF C15 H22 Cl N O2

RN 952660-66-1 CAPLUS

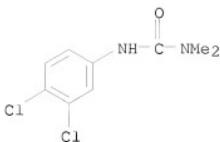
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with N'-(3,4-dichlorophenyl)-N,N-dimethylurea (CA INDEX NAME)

CM 1

CRN 858954-83-3  
CMF C9 H10 Cl N3 O2

CM 2

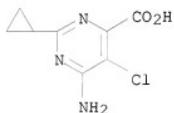
CRN 330-54-1  
CMF C9 H10 Cl2 N2 O



RN 952660-67-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with  
*N'*-(3,4-dichlorophenyl)-N,N-dimethylurea (CA INDEX NAME)

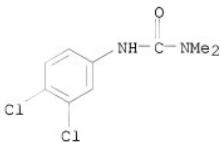
CM 1

CRN 858956-08-8  
 CMF C8 H8 Cl N3 O2



CM 2

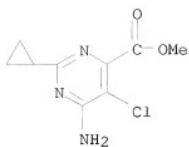
CRN 330-54-1  
 CMF C9 H10 Cl2 N2 O



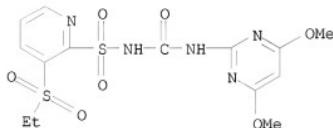
RN 952660-69-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with *N*-[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(ethylsulfonyl)-2-pyridinesulfonamide (CA INDEX NAME)

CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



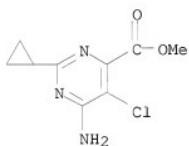
CM 2

CRN 122931-48-0  
CMF C14 H17 N5 O7 S2

RN 952660-70-7 CAPLUS

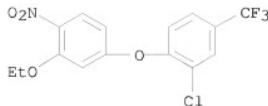
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzene (CA INDEX NAME)

CM 1

CRN 858954-83-3  
CMF C9 H10 Cl N3 O2

CM 2

CRN 42874-03-3  
CMF C15 H11 Cl F3 N O4



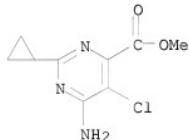
RN 952660-71-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 1-chloro-N-[2-chloro-4-fluoro-5-[(6S,7aR)-6-fluorotetrahydro-1,3-dioxo-1H-pyrrolo[1,2-c]imidazol-2(3H)-yl]phenyl]methanesulfonamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

CMF C9 H10 Cl N3 O2

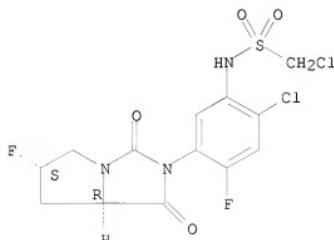


CM 2

CRN 190314-43-3

CMF C13 H11 Cl2 F2 N3 O4 S

Absolute stereochemistry.



RN 952660-72-9 CAPLUS

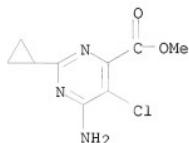
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl

ester, mixt. with 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

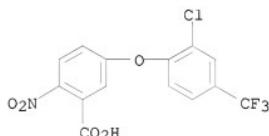
CMF C9 H10 Cl N3 O2



CM 2

CRN 50594-66-6

CMF C14 H7 Cl F3 N O5



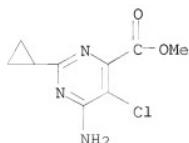
RN 952660-73-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propyn-1-yl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione (CA INDEX NAME)

CM 1

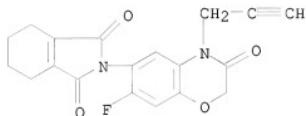
CRN 858954-83-3

CMF C9 H10 Cl N3 O2



CM 2

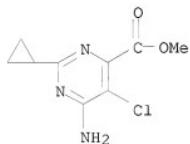
CRN 103361-09-7  
 CMF C19 H15 F N2 O4



RN 952660-74-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with  $\alpha$ ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzene propanoic acid (CA INDEX NAME)

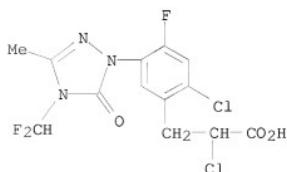
CM 1

CRN 858954-83-3  
 CMF C9 H10 Cl N3 O2



CM 2

CRN 128621-72-7  
 CMF C13 H10 Cl2 F3 N3 O3



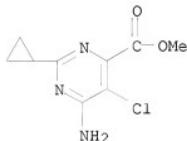
RN 952660-75-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

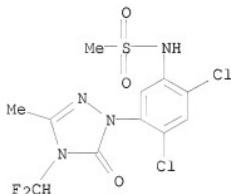
CMF C9 H10 Cl N3 O2



CM 2

CRN 122836-35-5

CMF C11 H10 Cl2 F2 N4 O3 S



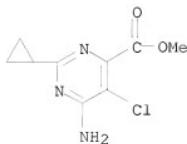
RN 952660-76-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[2,4-dichloro-5-(2-propyn-1-yloxy)phenyl]-5,6,7,8-tetrahydro-1,2,4-triazolo[4,3-a]pyridin-3(2H)-one (CA INDEX NAME)

CM 1

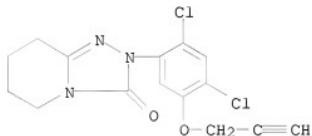
CRN 858954-83-3

CMF C9 H10 Cl N3 O2



CM 2

CRN 68049-83-2  
CMF C15 H13 Cl2 N3 O2

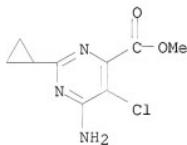


RN 952660-77-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-(2,4-dichlorophenoxy)acetic acid (CA INDEX NAME)

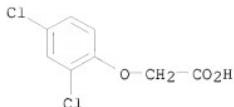
CM 1

CRN 858954-83-3  
CMF C9 H10 Cl N3 O2



CM 2

CRN 94-75-7  
CMF C8 H6 Cl2 O3



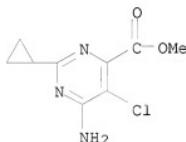
RN 952660-78-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-(4-chloro-2-methylphenoxy)acetic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

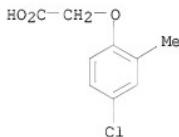
CMF C9 H10 Cl N3 O2



CM 2

CRN 94-74-6

CMF C9 H9 Cl O3



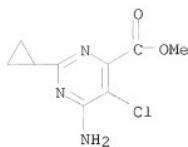
RN 952660-79-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[(4-amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy]acetic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

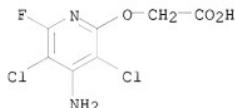
CMF C9 H10 Cl N3 O2



CM 2

CRN 69377-81-7

CMF C7 H5 Cl2 F N2 O3



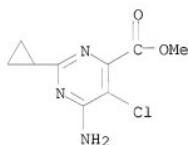
RN 952660-80-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[1-[2-[(3,5-difluorophenyl)amino]carbonyl]hydrazinylidene]ethyl]-3-pyridinecarboxylic acid (CA INDEX NAME)

CM 1

CRN 858954-83-3

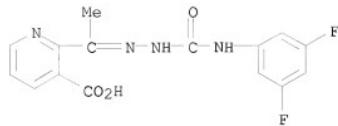
CMF C9 H10 Cl N3 O2



CM 2

CRN 109293-97-2

CMF C15 H12 F2 N4 O3



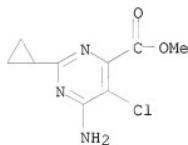
RN 952660-81-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-3-pyridinecarboxamide (CA INDEX NAME)

CM 1

CRN 858954-83-3

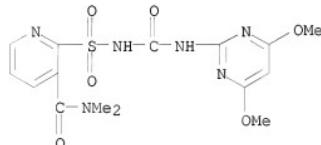
CMF C9 H10 Cl N3 O2



CM 2

CRN 111991-09-4

CMF C15 H18 N6 O6 S



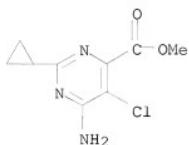
RN 952660-82-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate (CA INDEX NAME)

CM 1

CRN 858954-83-3

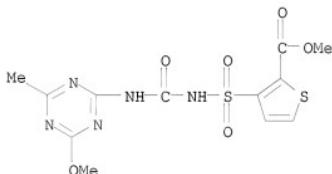
CMF C9 H10 Cl N3 O2



CM 2

CRN 79277-27-3

CMF C12 H13 N5 O6 S2



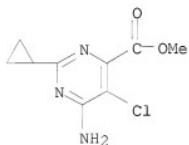
RN 952660-83-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with methyl 2-[{[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl}amino]sulfonylbenzoate (CA INDEX NAME)

CM 1

CRN 858954-83-3

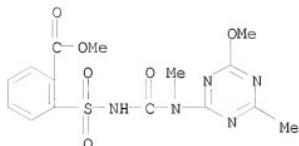
CMF C9 H10 Cl N3 O2



CM 2

CRN 101200-48-0

CMF C15 H17 N5 O6 S



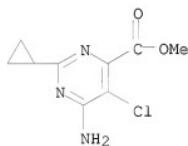
RN 952660-84-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (CA INDEX NAME)

CM 1

CRN 858954-83-3

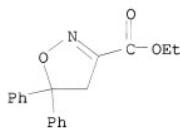
CMF C9 H10 Cl N3 O2



CM 2

CRN 163520-33-0

CMF C18 H17 N O3



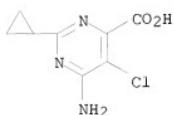
RN 952660-85-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with 1H,3H-naphtho[1,2-d]pyran-1,3-dione (CA INDEX NAME)

CM 1

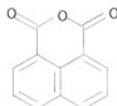
CRN 858956-08-8

CMF C8 H8 Cl N3 O2



CM 2

CRN 81-84-5  
CMF C12 H6 O3

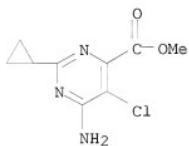


RN 952660-86-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 1H,3H-naphtho[1,8-cd]pyran-1,3-dione (CA INDEX NAME)

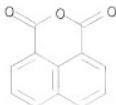
CM 1

CRN 858954-83-3  
CMF C9 H10 Cl N3 O2



CM 2

CRN 81-84-5  
CMF C12 H6 O3



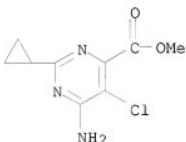
RN 952660-87-6 CAPLUS

CN  
4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester, mixt. with 2-[{[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl}amino]sulfonyl]-4-(formylamino)-N,N-dimethylbenzamide and ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (CA INDEX NAME)

CM 1

CRN 858954-83-3

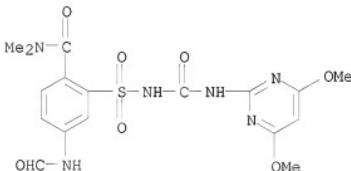
CMF C9 H10 Cl N3 O2



CM 2

CRN 173159-57-4

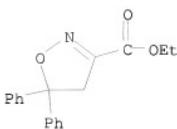
CMF C17 H20 N6 O7 S



CM 3

CRN 163520-33-0

CMF C18 H17 N 03



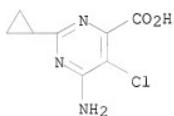
RN 952660-88-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, mixt. with  
ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (CA INDEX NAME)

CM 1

CRN 858956-08-8

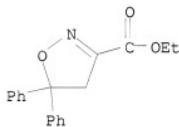
CMF C8 H8 Cl N3 O2



CM 2

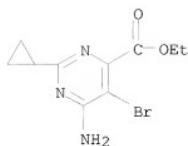
CRN 163520-33-0

CMF C18 H17 N O3

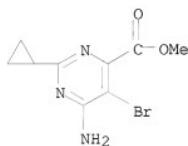


L10 ANSWER 16 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2007:906765 CAPLUS  
 DN 147:228744  
 TI Pyrimidinedicarboxylate derivatives and related compounds as cotton defoliants  
 IN Bone, James; Rowe, Loston; Smith, J. Dan; Williams, Charles Steven  
 PA E. I. du Pont de Nemours and Company, USA  
 SO PCT Int. Appl., 50 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

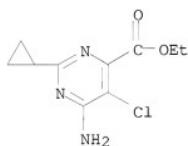
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007092184	A2	20070816	WO 2007-US2267	20070126
	WO 2007092184	A3	20081231		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JE, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UV, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	AU 2007212702	A1	20070816	AU 2007-212702	20070126
	US 20090247404	A1	20091001	US 2008-158694	20080107
PRAI	US 2006-764539P	P	20060202		
	US 2006-765542P	P	20060206		
	WO 2007-US2267	W	20070126		
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT					
OS	MARPAT 147:228744				
AB	Pyrimidinedicarboxylate derivs. and related compds. I [R1 = (un)substituted (cyclo)alkyl, alkenyl, etc.; R2 = C02H, alkoxy carbonyl, etc.; R3 = halo, (thio)cyan, nitro, alkyl, etc.; W = H, NH2, NO2 N3, etc.; X = N or (un)substituted CH] inhibit the regrowth of foliage of cotton conditioned for harvest or after harvest. I can be used as a mixture with known defoliants or desiccants.				
IT	858954-76-4	858954-77-5	858954-79-7,		
	Ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinedicarboxylate				
	858954-82-2	858954-83-3, Methyl			
	6-amino-5-chloro-2-cyclopropyl-4-pyrimidinedicarboxylate				
	858954-96-8	858955-48-3	858955-49-4		
	858955-50-7	858955-51-8	858955-86-9		
	858956-08-8	858956-12-4	858956-14-6		
	858956-15-7	858956-43-1	858956-44-2		
	858956-45-3	858956-46-4	945623-25-6		
	RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (cotton defoliant)				
RN	858954-76-4	CAPLUS			
CN	4-Pyrimidinedicarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)				



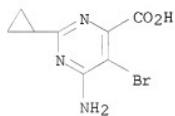
RN 858954-77-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



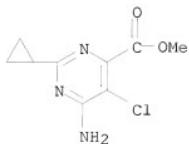
RN 858954-79-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



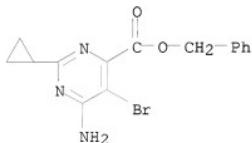
RN 858954-82-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



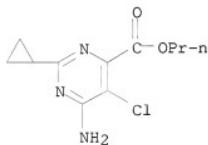
RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
 (CA INDEX NAME)



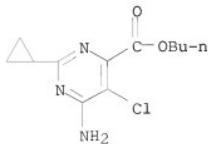
RN 858954-96-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



RN 858955-48-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)

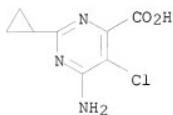


RN 858955-49-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester (CA INDEX NAME)



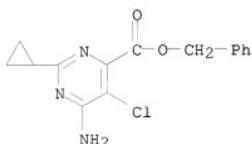
RN 858955-50-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt  
(1:1) (CA INDEX NAME)

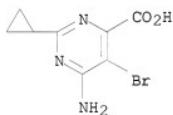


● Na

RN 858955-51-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)

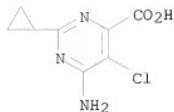


RN 858955-86-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt  
(1:1) (CA INDEX NAME)

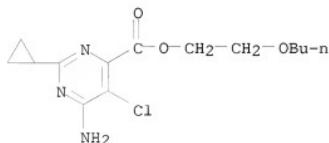


● Na

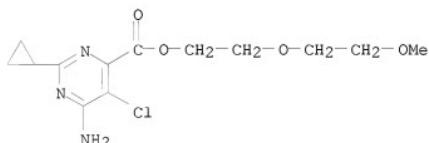
RN 858956-08-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



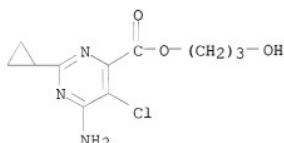
RN 858956-12-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 2-butoxyethyl ester (CA INDEX NAME)



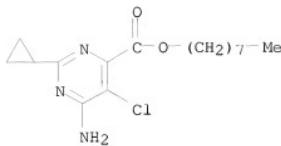
RN 858956-14-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



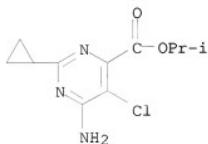
RN 858956-15-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 3-hydroxypropyl ester (CA INDEX NAME)



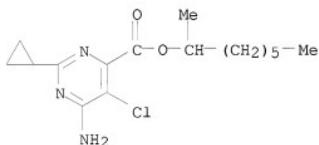
RN 858956-43-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
 (CA INDEX NAME)



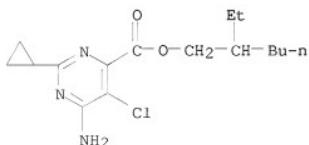
RN 858956-44-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylethyl ester (CA INDEX NAME)



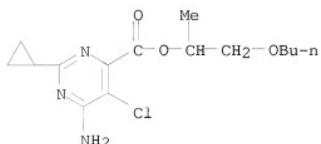
RN 858956-45-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylheptyl ester (CA INDEX NAME)



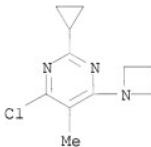
RN 858956-46-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
 ester (CA INDEX NAME)



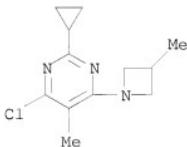
RN 945623-25-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-butoxy-1-methylethyl ester (CA INDEX NAME)



L10 ANSWER 17 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2007:526089 CAPLUS  
 DN 147:45200  
 TI Dual M3 antagonists-PDE4 inhibitors. Part 2: Synthesis and SAR of  
 3-substituted azetidinyl derivatives  
 AU Provens, Laurent; Christophe, Bernard; Danhaive, Pierre; Dulieu, Jacques;  
 Gillard, Michel; Quere, Luc; Stebbins, Karin  
 CS R&D, Chemin du Foriest, UCB Pharma S.A., Braine-L'Alleud, B-1420, Belg.  
 SO Bioorganic & Medicinal Chemistry Letters (2007), 17(11), 3077-3080  
 CODEN: BMCLE8; ISSN: 0960-894X  
 PB Elsevier Ltd.  
 DT Journal  
 LA English  
 OS CASREACT 147:45200  
 AB Introduction of 3-substituted azetidinyl substituents onto the  
 4,6-diaminopyrimidine scaffold allowed the improvement of PDE4 inhibiting  
 activities. Preliminary in vivo activity in pulmonary inflammation models  
 is reported.  
 IT 617718-48-6P 617718-50-0P 617718-52-2P  
 617718-53-3P 617718-54-4P 617718-55-5P  
 939778-74-2P 939778-76-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (Dual M3 antagonists-PDE4 inhibitors. Part 2: Synthesis and SAR of  
 3-substituted azetidinyl derivs.)  
 RN 617718-48-6 CAPLUS  
 CN Pyrimidine, 4-(1-azetidinyl)-6-chloro-2-cyclopropyl-5-methyl- (CA INDEX  
 NAME)

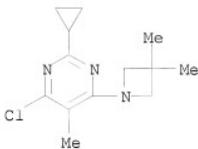


RN 617718-50-0 CAPLUS  
 CN Pyrimidine, 4-chloro-2-cyclopropyl-5-methyl-6-(3-methyl-1-azetidinyl)-  
 (CA INDEX NAME)

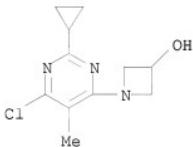


RN 617718-52-2 CAPLUS  
 CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3,3-dimethyl-1-azetidinyl)-5-methyl-

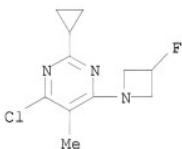
(CA INDEX NAME)



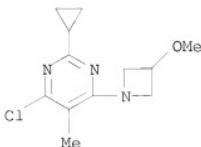
RN 617718-53-3 CAPLUS  
 CN 3-Azetidinol, 1-(6-chloro-2-cyclopropyl-5-methyl-4-pyrimidinyl)- (CA INDEX NAME)



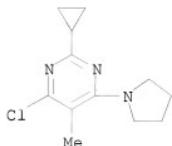
RN 617718-54-4 CAPLUS  
 CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3-fluoro-1-azetidinyl)-5-methyl- (CA INDEX NAME)



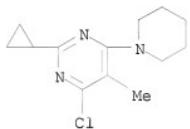
RN 617718-55-5 CAPLUS  
 CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3-methoxy-1-azetidinyl)-5-methyl- (CA INDEX NAME)



RN 939778-74-2 CAPLUS  
CN Pyrimidine, 4-chloro-2-cyclopropyl-5-methyl-6-(1-pyrrolidinyl)- (CA INDEX  
NAME)



RN 939778-76-4 CAPLUS  
CN Pyrimidine, 4-chloro-2-cyclopropyl-5-methyl-6-(1-piperidinyl)- (CA INDEX  
NAME)



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)  
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 18 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2006:1226934 CAPLUS

DN 146:7979

TI Method for preparing substituted pyrimidines

IN Annis, Gary David

PA E. I. Du Pont De Nemours and Company, USA

SO PCT Int. Appl., 26pp.

CODEN: PIXXD2

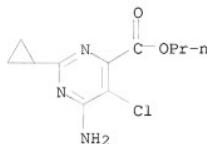
DT Patent

LA English

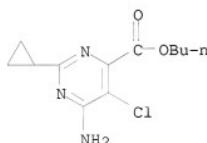
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006124657	A1	20061123	WO 2006-US18522	20060512
	W: AE, AG, AL, AM, AT, AU, BE, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	AU 2006247581	A1	20061123	AU 2006-247581	20060512
	EP 1888536	A1	20080220	EP 2006-759727	20060512
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	JP 2008540655	T	20081120	JP 2008-512374	20060512
	ZA 2007007974	A	20081126	ZA 2007-7974	20060512
	US 200900504647	A1	20090226	US 2007-886653	20070517
	IN 2007-DN08216	A	20071123	IN 2007-DN8216	20071024
	CN 101175730	A	20080507	CN 2006-80016942	20071116
	KR 2008016640	A	20080221	KR 2007-729280	20071214
PRAI	US 2005-681298P	P	20050516		
	WO 2006-US18522	W	20060512		
OS	CASREACT 146:7979; MARPAT 146:7979				
AB	The invention relates to a method for preparing a ester I [R1 = cyclopropyl, 4-chlorophenyl or 4-bromophenyl; R2 = alkyl] comprising contacting acetal II with a persulfate oxidant in the presence of a strong sulfur- or phosphorus-containing mineral acid such as sulfuric acid and an oxidation resistant solvent. Thus, reacting 5-chloro-2-cyclopropyl-6-(diethoxymethyl)-4-pyrimidinamine with ammonium persulfate in the presence of sulfuric acid in acetonitrile afforded 55% Et 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate.				
IT	858955-48-3	858955-49-4	858956-08-8		
	858956-43-1	858956-44-2	858956-45-3		
	858956-46-4	1042145-25-4	1042146-19-9		
	1042146-20-2	1042146-21-3	1042146-22-4		
	1042146-23-5	1042146-96-2	1042146-97-3		
	1042146-98-4				
	RL: PRPH (Prophetic)				
	(Method for preparing substituted pyrimidines)				
RN	858955-48-3	CAPLUS			
CN	4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester				

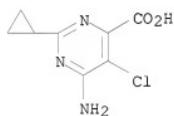
(CA INDEX NAME)



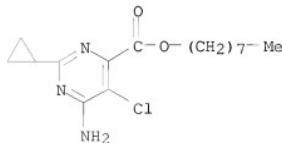
RN 858955-49-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester  
(CA INDEX NAME)

RN 858956-08-8 CAPLUS

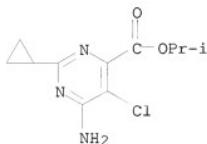
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX  
NAME)

RN 858956-43-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
(CA INDEX NAME)

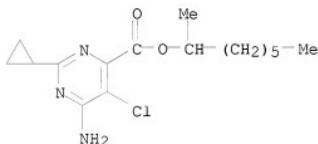
RN 858956-44-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylethyl ester (CA INDEX NAME)



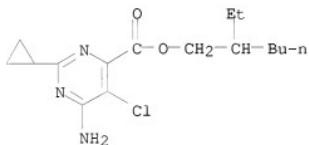
RN 858956-45-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylheptyl ester (CA INDEX NAME)



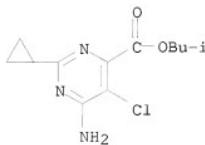
RN 858956-46-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
ester (CA INDEX NAME)

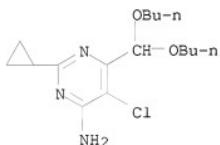


RN 1042145-25-4 CAPLUS

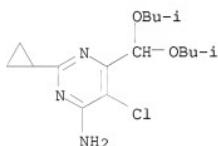
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-methylpropyl ester (CA INDEX NAME)



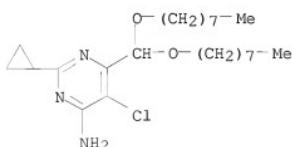
RN 1042146-19-9 CAPLUS  
CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dibutoxymethyl)- (CA INDEX NAME)



RN 1042146-20-2 CAPLUS  
CN 4-Pyrimidinamine, 6-[bis(2-methylpropoxy)methyl]-5-chloro-2-cyclopropyl- (CA INDEX NAME)

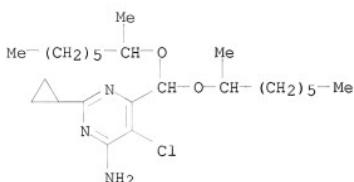


RN 1042146-21-3 CAPLUS  
CN 4-Pyrimidinamine, 6-[bis(octyloxy)methyl]-5-chloro-2-cyclopropyl- (CA INDEX NAME)

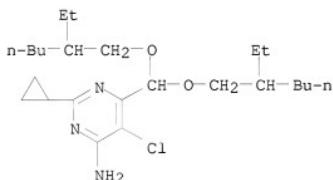


RN 1042146-22-4 CAPLUS

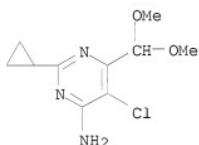
CN INDEX NAME NOT YET ASSIGNED



RN 1042146-23-5 CAPLUS

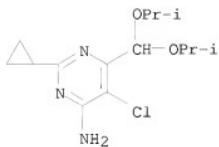
CN 4-Pyrimidinamine, 6-[bis[(2-ethylhexyl)oxy]methyl]-5-chloro-2-cyclopropyl-  
(CA INDEX NAME)

RN 1042146-96-2 CAPLUS

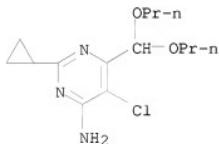
CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dimethoxymethyl)- (CA INDEX  
NAME)

RN 1042146-97-3 CAPLUS

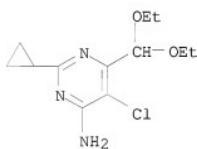
CN 4-Pyrimidinamine, 6-[bis(1-methylethoxy)methyl]-5-chloro-2-cyclopropyl-  
(CA INDEX NAME)



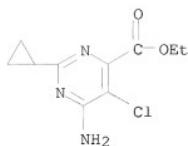
RN 1042146-98-4 CAPLUS  
 CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(dipropoxymethyl)- (CA INDEX NAME)



IT 915710-66-6P, 5-Chloro-2-cyclopropyl-6-(diethoxymethyl)-4-pyrimidinamine  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (method for preparing substituted pyrimidines)  
 RN 915710-66-6 CAPLUS  
 CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(diethoxymethyl)- (CA INDEX NAME)

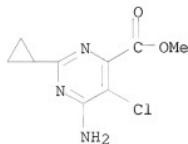


IT 858954-79-7P, Ethyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate 858954-83-3P, Methyl 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (method for preparing substituted pyrimidines)  
 RN 858954-79-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



RN 858954-83-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 19 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2006:1201993 CAPLUS  
 DN 145:505468  
 TI Process for preparation of optionally 2-substituted  
 1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acids from oxalacetate salts and  
 carboximidamides  
 IN Shapiro, Rafael  
 PA E. I. Du Pont de Nemours and Company, USA  
 SO PCT Int. Appl., 36pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006121648	A2	20061116	WO 2006-US16340	20060428
WO 2006121648	A3	20061228		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2006246374	A1	20061116	AU 2006-246374	20060428
CA 2607934	A1	20061116	CA 2006-2607934	20060428
EP 1877384	A2	20080116	EP 2006-751830	20060428
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
JP 2008540414	T	20081120	JP 2008-510079	20060428
ZA 2007007975	A	20081126	ZA 2007-7975	20060428
NZ 561399	A	20091127	NZ 2006-561399	20060428
US 20090043098	A1	20090212	US 2007-886605	20070917
IN 2007DN08215	A	20071123	IN 2007-DN8215	20071024
MX 2007013424	A	20080116	MX 2007-13424	20071026
KR 2008006576	A	20080116	KR 2007-725602	20071105
CN 101171237	A	20080430	CN 2006-80015454	20071106
PRAI US 2005-678264P	P	20050506		
WO 2006-US16340	W	20060428		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 145:505468; MARPAT 145:505468

AB Title compds. [I; R1 = H, (substituted) carbon moiety], were prepared by contacting R202C(MO):CHCO2R3 (M = alkali metal; R2, R3 = alkyl) with a base and water to provide MO2C(MO):CHCO2R3 (variables as above) in solution and contacting the latter with R1C(:NH)NH2 (R1 as above) in the presence of a second base to maintain pH 9-12, followed by addition of acid. Thus, a mixture of H2O/denatured EtOH was treated with di-Et oxalacetate Na salt over 10 min; aqueous NaOH was then added over 1 h followed by stirring for 30 min. Cyclopropanecarboximidamide hydrochloride (preparation given) in H2O and then aqueous NaOH were added over 1 h to pH 10.5-11.5. The solution was heated to 60° over 1 h followed by cooling to 45-50° and treatment

with aqueous HCl to give 85% 2-cyclopropyl-1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acid. The latter was converted to Me 6-amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate.

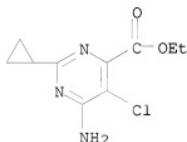
IT 858954-79-7 858955-48-3 858955-49-4  
 858955-51-8 858955-81-4 858955-83-6  
 858956-12-4 858956-14-6 858956-15-7  
 858956-43-1 858956-44-2 858956-45-3  
 858956-46-4 859032-08-9 1042145-25-4  
 1042145-65-2 1042145-67-4 1042145-85-6  
 1042145-93-6

RL: PRPH (Prophetic)

(Process for preparation of optionally 2-substituted 1,6-dihydro-6-oxo-4-pyrimidinecarboxylic acids from oxalacetate salts and carboximidamides)

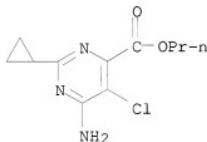
RN 858954-79-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
 (CA INDEX NAME)



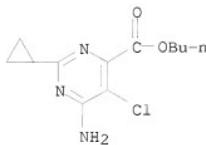
RN 858955-48-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester  
 (CA INDEX NAME)

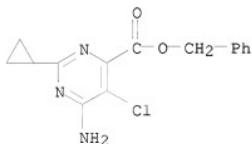


RN 858955-49-4 CAPLUS

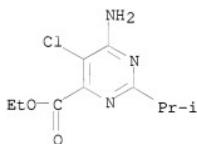
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester  
 (CA INDEX NAME)



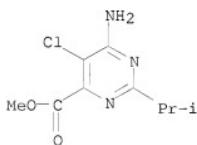
RN 858955-51-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



RN 858955-81-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)

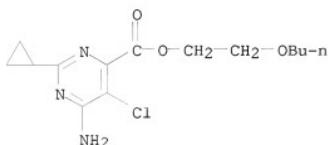


RN 858955-83-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, methyl ester (CA INDEX NAME)

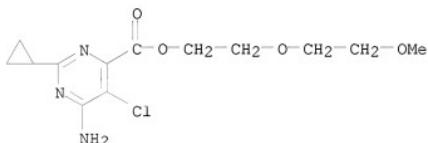


RN 858956-12-4 CAPLUS

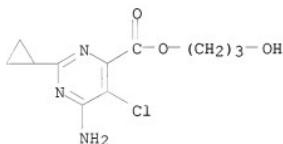
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-butoxyethyl ester (CA INDEX NAME)



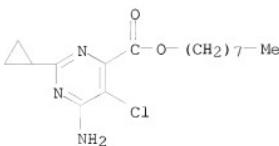
RN 858956-14-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



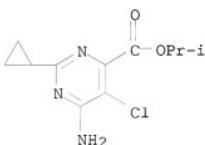
RN 858956-15-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
3-hydroxypropyl ester (CA INDEX NAME)



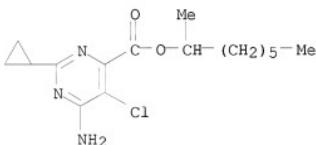
RN 858956-43-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
(CA INDEX NAME)



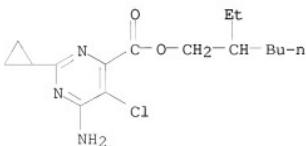
RN 858956-44-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylethyl ester (CA INDEX NAME)



RN 858956-45-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-methylheptyl ester (CA INDEX NAME)

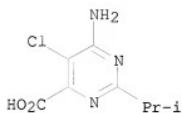


RN 858956-46-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl ester (CA INDEX NAME)



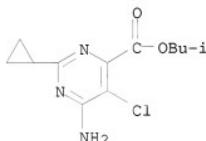
RN 859032-08-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)- (CA INDEX NAME)



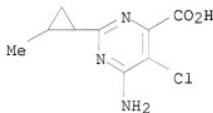
RN 1042145-25-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-methylpropyl ester (CA INDEX NAME)



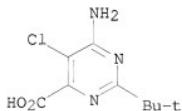
RN 1042145-65-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)- (CA INDEX NAME)



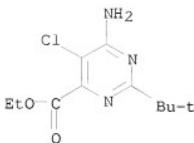
RN 1042145-67-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,1-dimethylethyl)- (CA INDEX NAME)

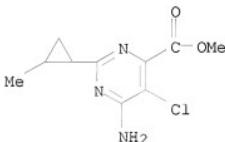


RN 1042145-85-6 CAPLUS

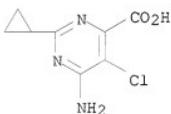
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,1-dimethylethyl)-, ethyl ester (CA INDEX NAME)



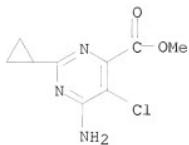
RN 1042145-93-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



IT 858956-08-8P, 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylic acid  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prep of optionally substituted dihydrooxypyrimidinecarboxylic acids from oxalacetate salts and carboximidamides)  
 RN 858956-08-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)

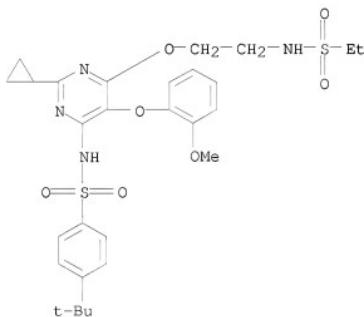


IT 858954-83-3P, Methyl 6-Amino-5-chloro-2-cyclopropyl-4-pyrimidinecarboxylate  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (prep of optionally substituted dihydrooxypyrimidinecarboxylic acids from oxalacetate salts and carboximidamides)  
 RN 858954-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



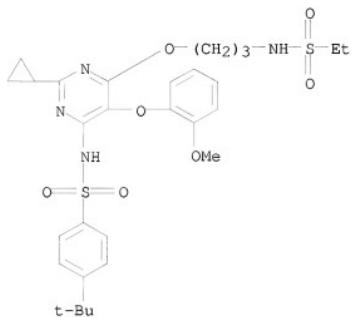
OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)  
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 20 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2006:535325 CAPLUS  
 DN 145:240924  
 TI Study on the quantitative structure-activity relationship of nonpeptide endothelin receptor antagonist: Bis-sulfonamides  
 AU Li, Gang; Zhou, Lu; Hao, LiFen  
 CS College of Chemical Engineering, Sichuan University, Sichuan, 610065, Peop. Rep. China  
 SO Jisuanji Yu Yingyong Huaxue (2005), 32(9), 779-783  
 CODEN: JYHE6; ISSN: 1001-4160  
 PB Jisuanji Yu Yingyong Huaxue Bianjibu  
 DT Journal  
 LA Chinese  
 AB The study investigated the QSAR model between the structure of Bis-sulfonamides and their activity, and to provide reference for the synthesize of Bis-sulfonamides as new endothelin receptor antagonist. The structure parameters had been computed, and analyze the quant. structure activity relationship (QSAR) of 34 Bis-sulfonamide compds. by BP neural network. It has been obtained a QSAR model which has splendid forecast capability. There are has direct charge migration between the ETs receptor antagonist and Bis-sulfonamides, the electrostatic and LogP are mainly factor that effect the activity of Bis-sulfonamides.  
 IT 329924-54-1 329925-16-8 329925-17-9  
 906463-33-0 906463-37-4 906463-38-5  
 906463-41-0 906463-42-1 906463-44-3  
 906463-49-8 906463-55-6 906463-57-8  
 906463-58-9  
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (quant. structure-activity relationship of nonpeptide endothelin receptor antagonist: Bis-sulfonamides)  
 RN 329924-54-1 CAPLUS  
 CN Benzenesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)-(CA INDEX NAME)



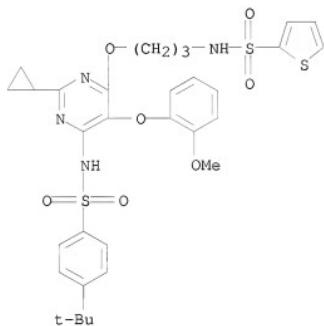
RN 329925-16-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



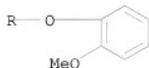
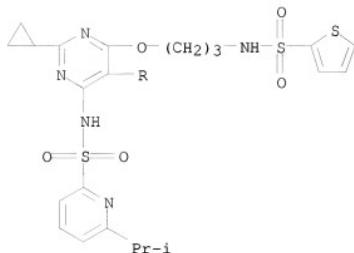
RN 329925-17-9 CAPLUS

CN 2-Thiophenesulfonamide, N-[3-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]propyl- (CA INDEX NAME)



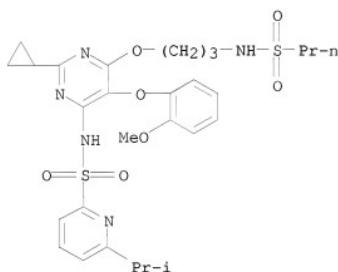
RN 906463-33-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(2-thienylsulfonyl)amino]propoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)



RN 906463-37-4 CAPLUS

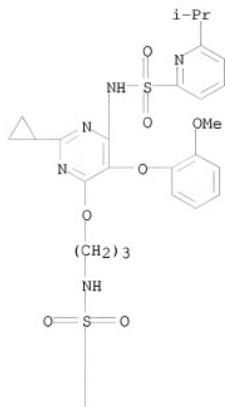
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(propylsulfonyl)amino]propoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)



RN 906463-38-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(4-methylphenyl)sulfonyl]amino]propoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)

PAGE 1-A



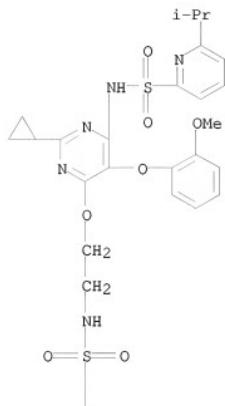
PAGE 2-A



RN 906463-41-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(4-methylphenyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)

PAGE 1-A

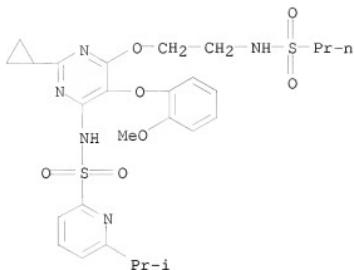


PAGE 2-A



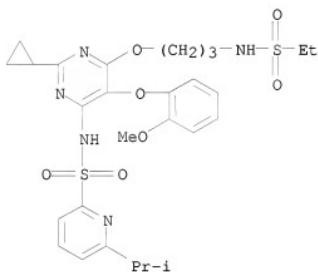
RN 906463-42-1 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)



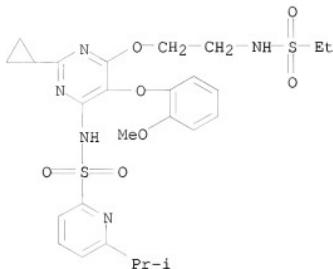
RN 906463-44-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)



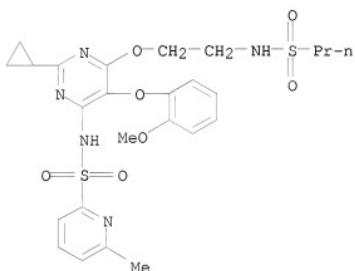
RN 906463-49-8 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-6-(1-methylethyl)- (CA INDEX NAME)



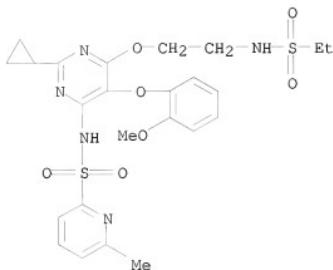
RN 906463-55-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{[(propylsulfonyl)amino]ethoxy}-4-pyrimidinyl]-6-methyl- (CA INDEX NAME)



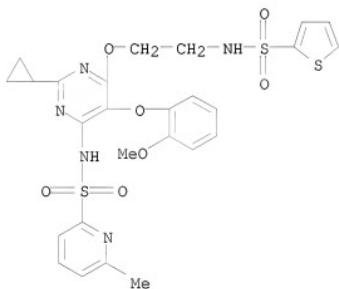
RN 906463-57-8 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-{[(ethylsulfonyl)amino]ethoxy}-5-(2-methoxyphenoxy)-4-pyrimidinyl]-6-methyl- (CA INDEX NAME)

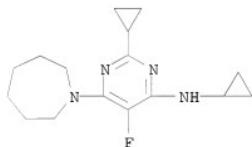


RN 906463-58-9 CAPLUS

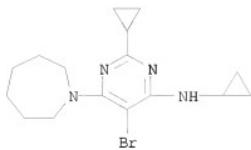
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{2-[(2-thienylsulfonyl)amino]ethoxy}-4-pyrimidinyl]-6-methyl- (CA INDEX NAME)



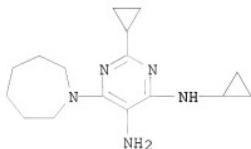
L10 ANSWER 21 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2006:188875 CAPLUS  
 DN 144:432767  
 TI First dual M3 antagonists-PDE4 inhibitors: Synthesis and SAR of 4,6-diaminopyrimidine derivatives  
 AU Provens, Laurent; Christophe, Bernard; Danhaive, Pierre; Dulieu, Jacques; Durieu, Veronique; Gillard, Michel; Lebon, Florence; Lengele, Sebastien; Quere, Luc; van Keulen, BerendJan  
 CS Global Chemistry, UCB, R&D, Chemin du Foriest, Braine-L'Alleud, B-1420, Belg.  
 SO Bioorganic & Medicinal Chemistry Letters (2006), 16(7), 1834-1839  
 CODEN: BMCLB8; ISSN: 0960-894X  
 PB Elsevier B.V.  
 DT Journal  
 LA English  
 OS CASREACT 144:432767  
 AB Structure-activity studies around 4,6-diaminopyrimidine derivs. allowed the discovery of potent dual M3 antagonists and PDE4 inhibitors. Various chemical modulations around that scaffold led to the discovery of ucb-101333-3 (I) which is characterized by the most interesting profile on both targets.  
 IT 617717-02-9P 617717-04-1P 617717-06-3P  
 617717-68-7P 617717-72-3P 617717-87-0P  
 617717-89-2P 617717-96-1P 617717-98-3P  
 617718-03-3P 617718-93-1P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation of 4,6-diaminopyrimidine derivs. as dual M3 antagonists and PDE4 inhibitors)  
 RN 617717-02-9 CAPLUS  
 CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(hexahydro-1H-azepin-1-yl)-  
 (CA INDEX NAME)



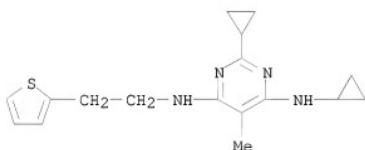
RN 617717-04-1 CAPLUS  
 CN 4-Pyrimidinamine, 5-bromo-N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-  
 (CA INDEX NAME)



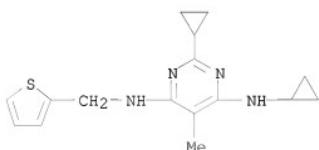
RN 617717-06-3 CAPLUS  
CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-N6-bromo  
(CA INDEX NAME)



RN 617717-68-7 CAPLUS  
CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-5-methyl-N6-[2-(2-thienyl)ethyl]-  
(CA INDEX NAME)

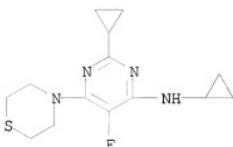


RN 617717-72-3 CAPLUS  
CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-5-methyl-N6-(2-thienylmethyl)-  
(CA INDEX NAME)

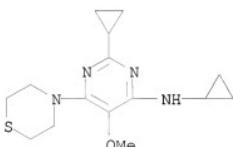


RN 617717-87-0 CAPLUS

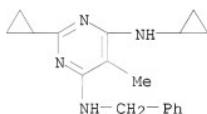
CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(4-thiomorpholinyl)- (CA INDEX NAME)



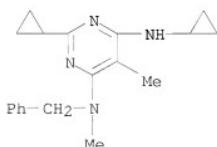
RN 617717-89-2 CAPLUS  
CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-methoxy-6-(4-thiomorpholinyl)- (CA INDEX NAME)



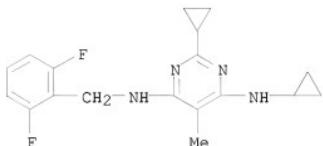
RN 617717-96-1 CAPLUS  
CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-5-methyl-N6-(phenylmethyl)- (CA INDEX NAME)



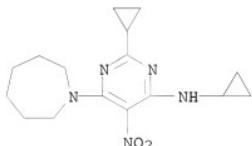
RN 617717-98-3 CAPLUS  
CN 4,6-Pyrimidinediamine, N6,2-dicyclopropyl-N4,5-dimethyl-N4-(phenylmethyl)- (CA INDEX NAME)



RN 617718-03-3 CAPLUS  
CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-N6-[ (2,6-difluorophenyl)methyl]-  
5-methyl- (CA INDEX NAME)



RN 617718-93-1 CAPLUS  
CN 4-Pyrimidinamine, N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-nitro-  
(CA INDEX NAME)



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)  
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 22 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2005:1242217 CAPLUS  
 DN 144:7084  
 TI Preparation of pyrimidine amino acid derivatives as antagonists of the vitronectin receptor  
 IN Lefrancois, Jean Michel; Heckmann, Bertrand  
 PA Proskelia Sas, Fr.  
 SO Fr. Demande, 123 pp.  
 CODEN: FRXXBL

DT Patent  
 LA French

FAN: CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR 2870541	A1	20051125	FR 2004-5407	20040518
FR 2870541	B1	20060714		
AU 2005254751	A1	20051229	AU 2005-254751	20050513
CA 2567003	A1	20051229	CA 2005-2567003	20050513
WO 2005123734	A1	20051229	WO 2005-FR1209	20050513
W: AE, AG, AL, AM, AT, AU, BZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
EP 1747222	A1	20070131	EP 2005-771271	20050513
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2007538056	T	20071227	JP 2007-517331	20050513
US 20080058348	A1	20080306	US 2006-596597	20061115
KR 2007041444	A	20070418	KR 2006-724312	20061120
PRAI FR 2004-5407	A	20040518		
WO 2005-FR1209	W	20050513		

#### ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 144:7084

AB The invention relates to pyrimidine derivs. I [R is -X-alk-Het (X is O, S, NH or alkylimino, alk is alkyl, and Het is a ring which may contain O, S or N), 1-azetidinyl, 1-pyrrolidinyl or piperidinyl, which may be substituted; R1 is H, aryl, arylalkyl or an amino group; R2 is H, halo, nitro, alkyl, an amino group, etc.; R3 is H, carbalkoxy, a sulfonyl group, a ring system, etc.; R4 is OH, alkoxy, aryloxy, etc.] and their stereoisomeric forms and pharmaceutically-acceptable salts and includes their preparation and use in pharmaceutical compns. as antagonists of the vitronectin receptor. Syntheses of compds. are described in 65 examples, including that of 2-[(benzylloxycarbonyl)amino]-3-[5-ethyl-6-[3-(5,6,7,8-tetrahydro[1,8]naphthyridin-2-yl)propylamino]pyrimidin-4-ylamino]propionic acid bis(trifluoroacetate). Compds. of the invention showed K/VnR IC50 in the range 2-10,000 nM for binding to  $\alpha\beta 3$  vitronectin receptor.

IT 870088-44-1P

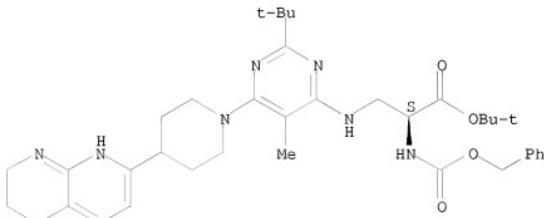
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of pyrimidine amino acid derivs. as antagonists of the  
 vitronectin receptor)

RN 870088-44-1 CAPLUS

CN L-Alanine, 3-[(2-(1,1-dimethylethyl)-5-methyl-6-[4-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl)amino]-N-[(phenylmethoxy)carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



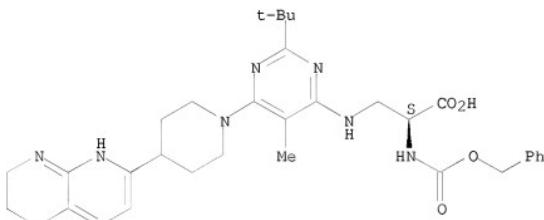
IT 870088-45-2P 870088-46-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of pyrimidine amino acid derivs. as antagonists of the  
 vitronectin receptor)

RN 870088-45-2 CAPLUS

CN L-Alanine, 3-[(2-(1,1-dimethylethyl)-5-methyl-6-[4-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl)amino]-N-[(phenylmethoxy)carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



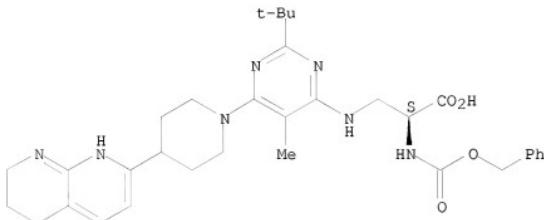
RN 870088-46-3 CAPLUS

CN L-Alanine, 3-[(2-(1,1-dimethylethyl)-5-methyl-6-[4-(1,5,6,7-tetrahydro-1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl)amino]-N-[(phenylmethoxy)carbonyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 870088-45-2  
CMF C33 H43 N7 O4

Absolute stereochemistry.



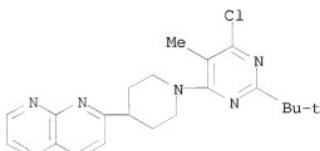
CM 2

CRN 76-05-1  
CMF C2 H F3 O2

IT 870089-68-2P 870089-69-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of pyrimidine amino acid derivs. as antagonists of the vitronectin receptor)

RN 870089-68-2 CAPLUS

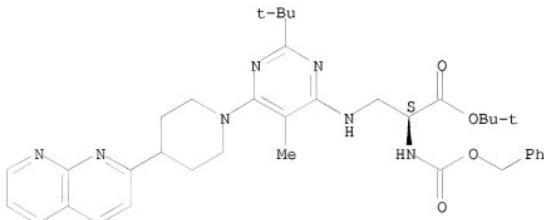
CN 1,8-Naphthyridine, 2-[1-[6-chloro-2-(1,1-dimethylethyl)-5-methyl-4-pyrimidinyl]-4-piperidinyl]- (CA INDEX NAME)



RN 870089-69-3 CAPLUS

CN L-Alanine, 3-[2-(1,1-dimethylethyl)-5-methyl-6-[4-(1,8-naphthyridin-2-yl)-1-piperidinyl]-4-pyrimidinyl]amino]-N-[(phenylmethoxy)carbonyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

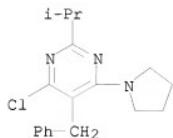
L10 ANSWER 23 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2005:962042 CAPLUS  
 DN 143:266941  
 TI Preparation of pyrimidine derivatives as agricultural and horticultural fungicides  
 IN Ito, Masahito; Hatazawa, Mamoru; Araki, Yasuo; Inuta, Tetsuya  
 PA Bayer Cropscience A.-G., Germany  
 SO PCT Int. Appl., 197 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

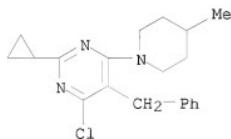
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005079798	A1	20050901	WO 2005-EP1383	20050211
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2005232081	A	20050902	JP 2004-43405	20040219
	AU 2005215109	A1	20050901	AU 2005-215109	20050211
	CA 2556480	A1	20050901	CA 2005-2556480	20050211
	EP 1718305	A1	20061108	EP 2005-741674	20050211
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	CN 1942188	A	20070404	CN 2005-80011698	20050211
	BR 2005007915	A	20070710	BR 2005-7915	20050211
	JP 2007524689	T	20070830	JP 2006-553501	20050211
	IN 2006DN04518	A	20070824	IN 2006-DN4518	20060804
	ZA 2006006775	A	20080430	ZA 2006-6775	20060815
	MX 2006009309	A	20061009	MX 2006-9309	20060816
	KR 2007003935	A	20070105	KR 2006-718850	20060914
	US 20070167421	A1	20070719	US 2006-589113	20061114
PRAI	JP 2004-43405	A	20040219		
	WO 2005-EP1383	W	20050211		
OS	CASREACT 143:266941; MARPAT 143:266941				
AB	The title compds. I [NR1R2 = (un)substituted 3-10 membered heterocyclic group which may contain further 1-3 heteroatoms besides the nitrogen atom to which R1 and R2 are bonded; n = 0-2; R3 = H, halo, CN, etc.; R4 = H, halo, CN, etc.; R5, R6 = H, halo, alkyl, etc.; Q = (un)substituted aryl, 5-6 membered heterocyclil that contains one heteroatom], useful as agrohorticultural fungicides, were prepared Thus, reacting 5-benzyl-4,6-dichloropyrimidine with pyrrolidine in the presence of Et3N in THF afforded II. The compds. I were tested against various fungi (specific data were given for representative compds. I).				
IT	1044446-23-2	1044450-92-1	1044452-59-6		
	1044455-10-8	1044457-93-3	1044460-67-4		
	1044461-70-2				
RL:	PRPH (Prophetic)				
	(Preparation of pyrimidine derivatives as agricultural and				

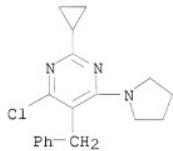
horticultural fungicides)  
 RN 104446-23-2 CAPLUS  
 CN Pyrimidine, 4-chloro-2-(1-methylethyl)-5-(phenylmethyl)-6-(1-pyrrolidinyl)-  
 (CA INDEX NAME)



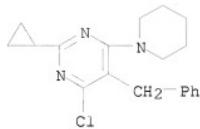
RN 1044450-92-1 CAPLUS  
 CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(4-methyl-1-piperidinyl)-5-(phenylmethyl)-  
 (CA INDEX NAME)



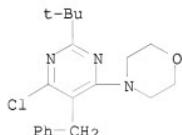
RN 1044452-59-6 CAPLUS  
 CN Pyrimidine, 4-chloro-2-cyclopropyl-5-(phenylmethyl)-6-(1-pyrrolidinyl)-  
 (CA INDEX NAME)



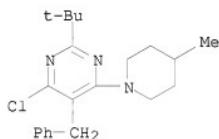
RN 1044455-10-8 CAPLUS  
 CN Pyrimidine, 4-chloro-2-cyclopropyl-5-(phenylmethyl)-6-(1-piperidinyl)-  
 (CA INDEX NAME)



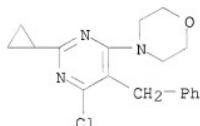
RN 1044457-93-3 CAPLUS  
 CN Morpholine, 4-[6-chloro-2-(1,1-dimethylethyl)-5-(phenylmethyl)-4-pyrimidinyl]- (CA INDEX NAME)



RN 1044460-67-4 CAPLUS  
 CN Pyrimidine, 4-chloro-2-(1,1-dimethylethyl)-6-(4-methyl-1-piperidinyl)-5-(phenylmethyl)- (CA INDEX NAME)



RN 1044461-70-2 CAPLUS  
 CN Morpholine, 4-[6-chloro-2-cyclopropyl-5-(phenylmethyl)-4-pyrimidinyl]- (CA INDEX NAME)



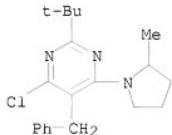
IT 863765-42-8P 863765-77-9P 863766-04-5P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES

## (Uses)

(preparation of pyrimidine derivs. as agricultural and horticultural fungicides)

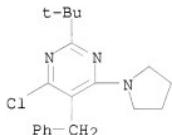
RN 863765-42-8 CAPLUS

CN Pyrimidine, 4-chloro-2-(1,1-dimethylethyl)-6-(2-methyl-1-pyrrolidinyl)-5-(phenylmethyl)- (CA INDEX NAME)



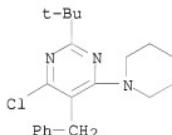
RN 863765-77-9 CAPLUS

CN Pyrimidine, 4-chloro-2-(1,1-dimethylethyl)-5-(phenylmethyl)-6-(1-pyrrolidinyl)- (CA INDEX NAME)



RN 863766-04-5 CAPLUS

CN Pyrimidine, 4-chloro-2-(1,1-dimethylethyl)-5-(phenylmethyl)-6-(1-piperidinyl)- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 24 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2005:612265 CAPLUS  
 DN 143:133387  
 TI Preparation of herbicidal pyrimidines  
 IN Clark, David Alan; Finkelstein, Bruce Lawrence; Armel, Gregory Russell;  
 Wittenbach, Vernon Arie  
 PA E. I. Dupont de Nemours and Company, USA  
 SO PCT Int. Appl., 151 pp.  
 CODEN: PIXXD2

**Applicant's**

DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005063721	A1	20050714	WO 2004-US42302	20041216
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004309325	A1	20050714	AU 2004-309325	20041216
CA	2548058	A1	20050714	CA 2004-2548058	20041216
EP	1694651	A1	20060830	EP 2004-814481	20041216
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS				
	CN 1894220	A	20070110	CN 2004-80037819	20041216
BR	2004017279	A	20070313	BR 2004-17279	20041216
JP	2007534649	T	20071129	JP 2006-545441	20041216
ZA	2006004258	A	20080730	ZA 2006-4258	20041216
NZ	547251	A	20090925	NZ 2004-547251	20041216
IN	2006DN03045	A	20070803	IN 2006-DN03045	20060526
US	20070197391	A1	20070823	US 2006-581897	20060605
KR	2006114345	A	20061106	KR 2006-12063	20060616
MX	2006007033	A	20060831	MX 2006-7033	20060619
PRAI	US 2003-531300P	P	20031219		
	US 2004-598397P	P	20040803		
	WO 2004-US42302	W	20041216		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 143:133387; MARPAT 143:133387

AB The title compds. I [R1 = (un)substituted cyclopropyl, iso-Pr, or Ph; R2 = ((O)jC(R15)(R16))KR; R = CO2H or a herbicidally effective derivative of CO2H; R3 = halo, CN, NO2, OR20, SR21 or N(R22)R23; R4 = N(R24)R25 or NO2; j = 0-1; k = 0-1; provided that when k = 0, then j = 0; R15, R16 = H, halo, alkyl, etc.; R20, R21 = H, alkyl, haloalkyl; R22, R23 = H, alkyl; R24 = H, alkyl, alkenyl, etc.; R25 = H, alkyl, C(O)R33; R33 = H, alkyl, haloalkyl, etc.; or R24 and R25 are taken together as a radical selected from (CH2)4, (CH2)5, etc.] which are useful for controlling undesired vegetation, were prepared. E.g., a multi-step synthesis of Et 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (II) and Me 6-amino-5-bromo-2-cyclopropyl-4-pyrimidinecarboxylate (III), starting from

Et 4,4-diethoxy-3-oxobutanoate and cyclopropanecarboximidamide monohydrochloride, was given. The compound II showed complete control against Pigweed at 500g ai/ha in postemergence test. Also disclosed are compns. comprising the compds. I and a method for controlling undesired vegetation which involves contacting the vegetation or its environment with an effective amount of a compound I. Also disclosed are compns. comprising a compound I and at least one addnl. active ingredient selected from the group consisting of an other herbicide and a herbicide safener.

IT	859032-08-9	1042145-65-2	1042145-93-6
	1045226-79-6	1045226-82-1	1045226-83-2
	1045226-85-4	1045227-02-8	1045227-32-4
	1045227-33-5	1045227-34-6	1045227-35-7
	1045227-40-4	1045227-41-5	1045227-42-6
	1045227-43-7	1045227-48-2	1045227-49-3
	1045227-50-6	1045227-51-7	1045227-56-2
	1045227-57-3	1045227-58-4	1045227-59-5
	1045227-64-2	1045227-65-3	1045227-66-4
	1045227-67-5	1045227-71-1	1045227-73-3
	1045227-74-4	1045227-75-5	1045227-79-9
	1045227-81-3	1045227-82-4	1045227-83-5
	1045227-87-9	1045227-89-1	1045227-90-4
	1045227-91-5	1045227-95-9	1045227-97-1
	1045227-98-2	1045227-99-3	1045228-03-2
	1045228-05-4	1045228-06-5	1045228-07-6
	1045228-11-2	1045228-20-3	1045228-21-4
	1045228-23-6	1045228-26-9	1045228-28-1
	1045228-40-7	1045228-41-8	1045228-42-9
	1045228-44-1	1045228-48-5	1045228-49-6
	1045229-11-5	1045229-12-6	1045229-14-8
	1045229-18-2	1045229-19-3	1045229-20-6
	1045229-22-8	1045229-26-2	1045229-27-3
	1045229-28-4	1045229-30-8	1045229-34-2
	1045229-35-3	1045229-36-4	1045229-38-6
	1045229-42-2	1045229-43-3	1045229-44-4
	1045229-46-6	1045229-50-2	1045229-51-3
	1045229-52-4	1045229-96-6	1045229-97-7
	1045229-98-8	1045230-07-6	1045230-11-2
	1045230-12-3	1045230-14-5	1045230-15-6
	1045230-19-0	1045230-20-3	1045230-22-5
	1045230-23-6	1045230-27-0	1045230-28-1
	1045230-30-5	1045230-31-6	1045230-35-0
	1045230-36-1	1045230-38-3	1045230-39-4
	1045230-43-0	1045230-45-2	1045230-46-3
	1045230-58-7	1045230-59-8	1045230-61-2
	1045230-62-3	1045230-66-7	1045230-82-7
	1045230-84-9	1045230-86-1	1045230-88-3
	1045231-01-3	1045231-02-4	1045231-04-6
	1045231-07-9	1045231-09-1	1045231-10-4
	1045231-12-6	1045231-23-9	1045231-57-9
	1045231-59-1	1045231-62-6	1045231-63-7
	1045231-65-9	1045231-66-0	1045231-70-6
	1045231-71-7	1045231-73-9	1045231-74-0
	1045231-78-4	1045232-62-9	1045232-64-1
	1045232-68-5	1045232-69-6	1045232-71-0
	1045232-72-1	1045232-76-5	1045232-77-6
	1045232-79-8	1045232-80-1	1045232-83-4
	1045232-85-6	1045232-87-8	1045232-88-9

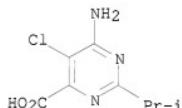
1045232-91-4	1045232-92-5	1045232-95-8
1045232-96-9	1045232-99-2	1045233-00-8
1045233-03-1	1045233-04-2	1045233-07-5
1045233-08-6	1045233-26-8	1045233-28-0
1045233-36-0	1045233-37-1	1045233-41-7
1045233-42-8	1045233-44-0	1045233-45-1
1045233-49-5	1045233-61-1	1045233-65-5
1045233-67-7	1045233-68-8	1045233-74-6
1045234-22-7	1045234-23-8	1045234-27-2
1045234-28-3	1045234-30-7	1045234-31-8
1045234-35-2	1045234-36-3	1045234-38-5
1045234-39-6	1045234-43-2	1045234-44-3
1045234-46-5	1045234-47-6	1045234-86-3
1045234-87-4	1045234-88-5	1045234-91-0
1045234-94-3	1045235-01-5	1045235-04-8
1045235-05-9	1045235-07-1	1045235-09-3
1045235-11-7	1045235-27-5	1045235-29-7
1045235-31-1	1045235-78-6	1045235-82-2
1045235-83-3	1045235-99-1	1045236-01-8
1045236-02-9	1045236-06-3	1045236-07-4
1045236-23-4	1045236-25-6	1045236-30-3
1045236-31-4	1045236-32-5	1045236-34-7
1045236-38-1	1045236-39-2	1045236-40-5
1045236-42-7	1045236-46-1	1045236-47-2
1045236-48-3	1045236-50-7	1045236-54-1
1045236-55-2	1045236-57-4	1045236-58-5

RL: PRPH (Prophetic)

(Preparation of herbicidal pyrimidines)

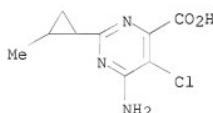
RN 859032-08-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)- (CA INDEX NAME)



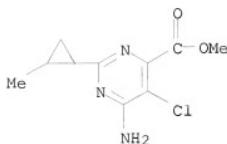
RN 1042145-65-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)- (CA INDEX NAME)

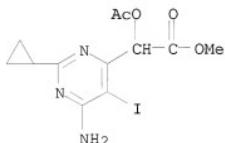


RN 1042145-93-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)

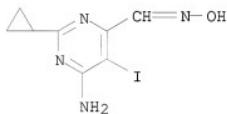


RN 1045226-79-6 CAPLUS

CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetoxy)-6-amino-2-cyclopropyl-5-ido-, methyl ester (CA INDEX NAME)

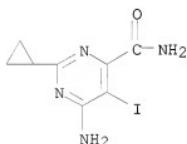
RN 1045226-82-1 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-ido-, oxime (CA INDEX NAME)



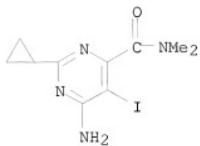
RN 1045226-83-2 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-ido- (CA INDEX NAME)

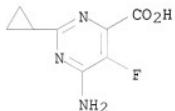


RN 1045226-85-4 CAPLUS

CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-ido-N,N-dimethyl- (CA INDEX NAME)

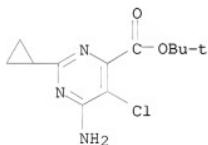


RN 1045227-02-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, potassium salt (1:1) (CA INDEX NAME)

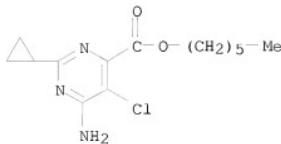


● K

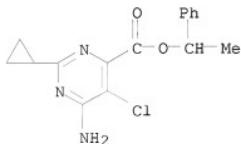
RN 1045227-32-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



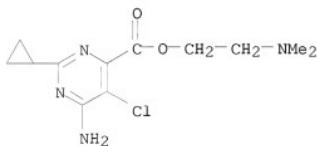
RN 1045227-33-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, hexyl ester (CA INDEX NAME)



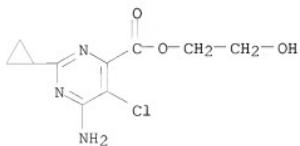
RN 1045227-34-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
1-phenylethyl ester (CA INDEX NAME)



RN 1045227-35-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-(dimethylamino)ethyl ester (CA INDEX NAME)

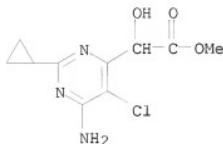


RN 1045227-40-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-hydroxyethyl ester (CA INDEX NAME)

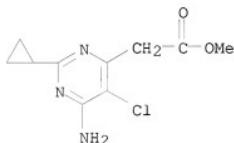


RN 1045227-41-5 CAPLUS

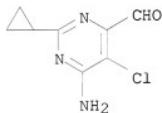
CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-cyclopropyl- $\alpha$ -hydroxy-, methyl ester (CA INDEX NAME)



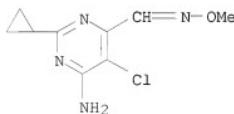
RN 1045227-42-6 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



RN 1045227-43-7 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)

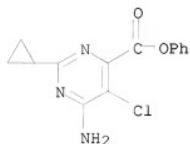


RN 1045227-48-2 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-cyclopropyl-, O-methyloxime (CA INDEX NAME)

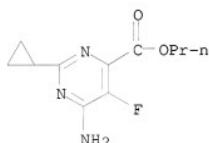


RN 1045227-49-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenyl ester

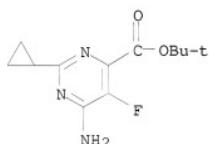
(CA INDEX NAME)



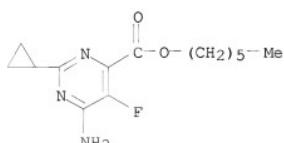
RN 1045227-50-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, propyl ester  
(CA INDEX NAME)

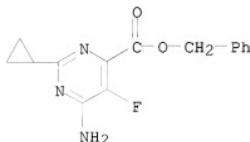
RN 1045227-51-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
1,1-dimethylethyl ester (CA INDEX NAME)

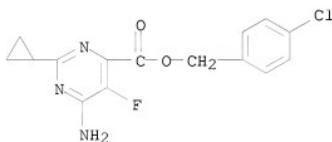
RN 1045227-56-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, hexyl ester  
(CA INDEX NAME)

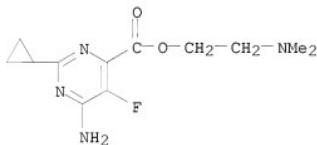
RN 1045227-57-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, phenylmethyl ester (CA INDEX NAME)



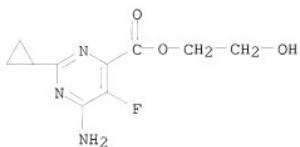
RN 1045227-58-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, (4-chlorophenyl)methyl ester (CA INDEX NAME)



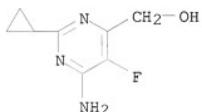
RN 1045227-59-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, 2-(dimethylamino)ethyl ester (CA INDEX NAME)



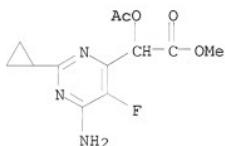
RN 1045227-64-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, 2-hydroxyethyl ester (CA INDEX NAME)



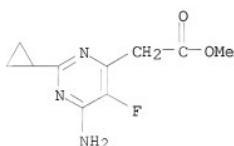
RN 1045227-65-3 CAPLUS  
 CN 4-Pyrimidinemethanol, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



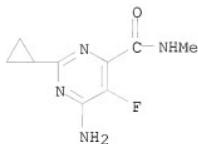
RN 1045227-66-4 CAPLUS  
 CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetoxy)-6-amino-2-cyclopropyl-5-fluoro-, methyl ester (CA INDEX NAME)



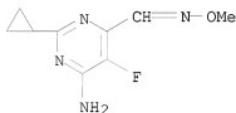
RN 1045227-67-5 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-5-fluoro-, methyl ester (CA INDEX NAME)



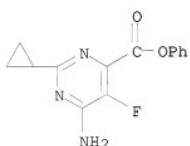
RN 1045227-71-1 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-fluoro-N-methyl- (CA INDEX NAME)



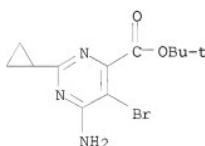
RN 1045227-73-3 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-fluoro-, O-methyloxime  
 (CA INDEX NAME)



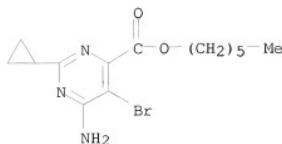
RN 1045227-74-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, phenyl ester  
 (CA INDEX NAME)



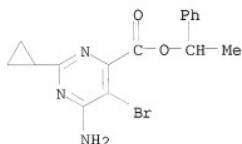
RN 1045227-75-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 1,1-dimethylethyl ester (CA INDEX NAME)



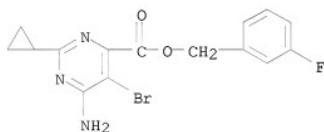
RN 1045227-79-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, hexyl ester  
 (CA INDEX NAME)



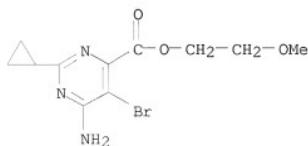
RN 1045227-81-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 1-phenylethyl ester (CA INDEX NAME)



RN 1045227-82-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, (3-fluorophenyl)methyl ester (CA INDEX NAME)

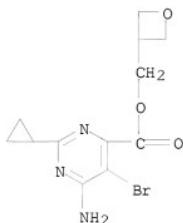


RN 1045227-83-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 2-methoxyethyl ester (CA INDEX NAME)

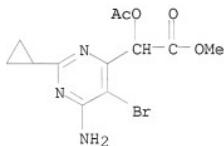


RN 1045227-87-9 CAPLUS

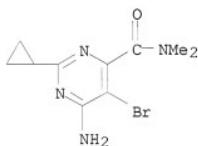
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
3-oxetanyl methyl ester (CA INDEX NAME)



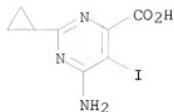
RN 1045227-89-1 CAPLUS  
 CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetoxy)-6-amino-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)



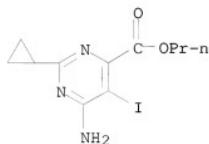
RN 1045227-90-4 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl-N,N-dimethyl- (CA INDEX NAME)



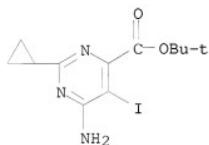
RN 1045227-91-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)



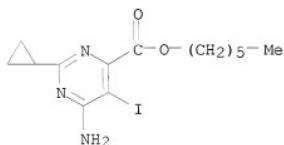
RN 1045227-95-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-ido-, propyl ester  
 (CA INDEX NAME)



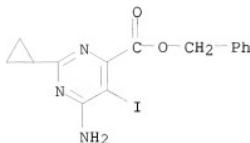
RN 1045227-97-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-ido-,  
 1,1-dimethylethyl ester (CA INDEX NAME)



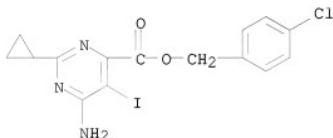
RN 1045227-98-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-ido-, hexyl ester  
 (CA INDEX NAME)



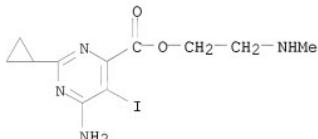
RN 1045227-99-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-ido-, phenylmethyl ester (CA INDEX NAME)



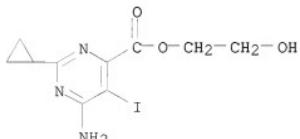
RN 1045228-03-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-ido-,  
(4-chlorophenyl)methyl ester (CA INDEX NAME)



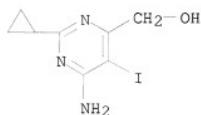
RN 1045228-05-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-ido-,  
2-(methylamino)ethyl ester (CA INDEX NAME)



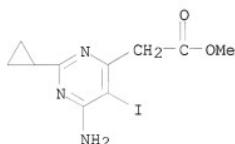
RN 1045228-06-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-ido-, 2-hydroxyethyl ester (CA INDEX NAME)



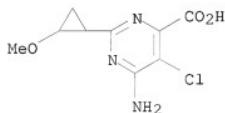
RN 1045228-07-6 CAPLUS  
 CN 4-Pyrimidinemethanol, 6-amino-2-cyclopropyl-5-ido- (CA INDEX NAME)



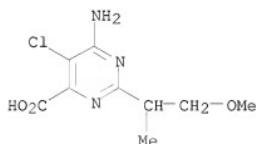
RN 1045228-11-2 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-5-ido-, methyl ester (CA INDEX NAME)



RN 1045228-20-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)- (CA INDEX NAME)

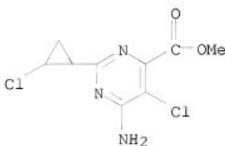


RN 1045228-21-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)- (CA INDEX NAME)



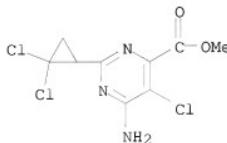
RN 1045228-23-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)-,

methyl ester (CA INDEX NAME)



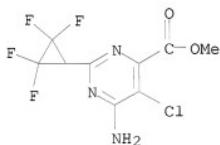
RN 1045228-26-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)-, methyl ester (CA INDEX NAME)



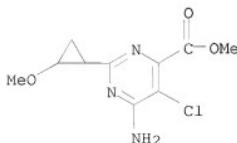
RN 1045228-28-1 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

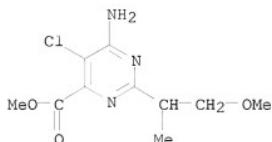


RN 1045228-40-7 CAPLUS

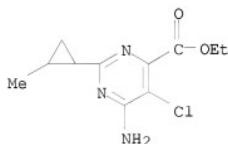
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)-, methyl ester (CA INDEX NAME)



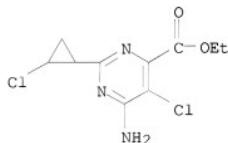
RN 1045228-41-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)-,  
, methyl ester (CA INDEX NAME)



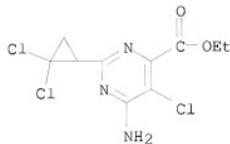
RN 1045228-42-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methylcyclopropyl)-,  
ethyl ester (CA INDEX NAME)



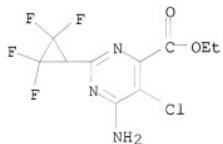
RN 1045228-44-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)-,  
ethyl ester (CA INDEX NAME)



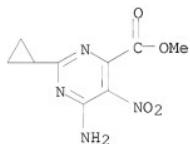
RN 1045228-48-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)-,  
, ethyl ester (CA INDEX NAME)



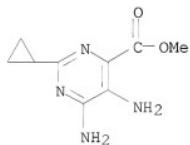
RN 1045228-49-6 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED



RN 1045229-11-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-nitro-, methyl ester  
(CA INDEX NAME)

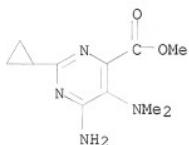


RN 1045229-12-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5,6-diamino-2-cyclopropyl-, methyl ester (CA INDEX NAME)



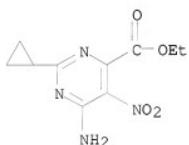
RN 1045229-14-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(dimethylamino)-,

methyl ester (CA INDEX NAME)



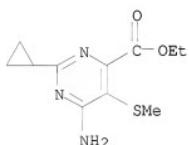
RN 1045229-18-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-nitro-, ethyl ester  
(CA INDEX NAME)



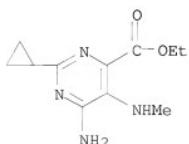
RN 1045229-19-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylthio)-, ethyl ester  
(CA INDEX NAME)

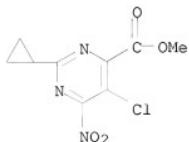


RN 1045229-20-6 CAPLUS

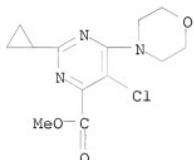
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylamino)-, ethyl ester  
(CA INDEX NAME)



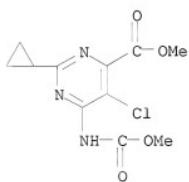
RN 1045229-22-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-nitro-, methyl ester  
 (CA INDEX NAME)



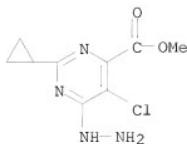
RN 1045229-26-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(4-morpholinyl)-, methyl ester (CA INDEX NAME)



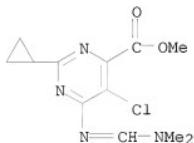
RN 1045229-27-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ (methoxycarbonyl)amino]-, methyl ester (CA INDEX NAME)



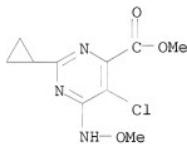
RN 1045229-28-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-hydrazinyl-, methyl ester (CA INDEX NAME)



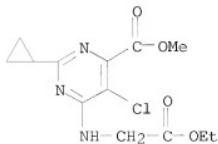
RN 1045229-30-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[[(dimethylamino)methylene]aminomethyl ester (CA INDEX NAME)



RN 1045229-34-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methoxyamino)-methyl ester (CA INDEX NAME)

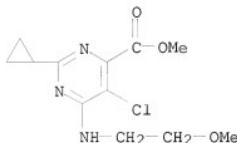


RN 1045229-35-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-methyl ester (CA INDEX NAME)

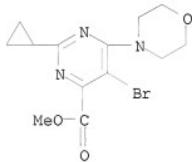


RN 1045229-36-4 CAPLUS

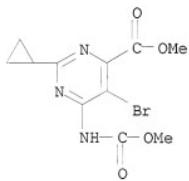
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[ (2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



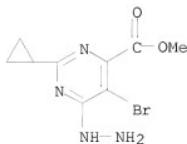
RN 1045229-38-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(4-morpholinyl)-, methyl ester (CA INDEX NAME)



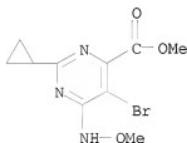
RN 1045229-42-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[ (methoxycarbonyl)amino]-, methyl ester (CA INDEX NAME)



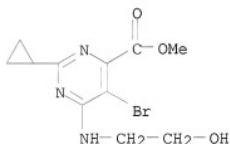
RN 1045229-43-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-hydrazinyl-, methyl ester (CA INDEX NAME)



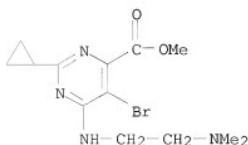
RN 1045229-44-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methoxyamino)-, methyl ester (CA INDEX NAME)



RN 1045229-46-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[ (2-hydroxyethyl)amino]-, methyl ester (CA INDEX NAME)

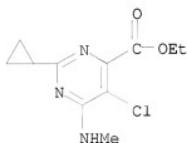


RN 1045229-50-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[ (2-(dimethylamino)ethyl)amino]-, methyl ester (CA INDEX NAME)



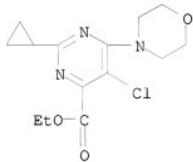
RN 1045229-51-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methylamino)-, ethyl ester (CA INDEX NAME)



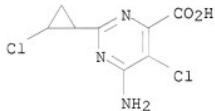
RN 1045229-52-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(4-morpholinyl)-, ethyl ester (CA INDEX NAME)



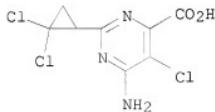
RN 1045229-96-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-chlorocyclopropyl)- (CA INDEX NAME)



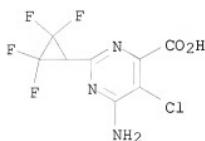
RN 1045229-97-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-dichlorocyclopropyl)- (CA INDEX NAME)



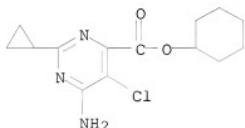
RN 1045229-98-8 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



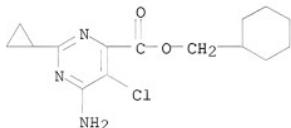
RN 1045230-07-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cyclohexyl ester (CA INDEX NAME)



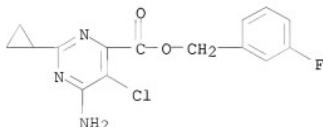
RN 1045230-11-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cyclohexylmethyl ester (CA INDEX NAME)



RN 1045230-12-3 CAPLUS

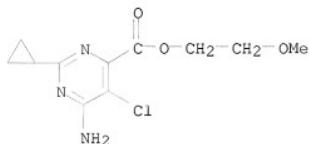
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, (3-fluorophenyl)methyl ester (CA INDEX NAME)



RN 1045230-14-5 CAPLUS

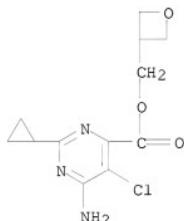
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,

2-methoxyethyl ester (CA INDEX NAME)



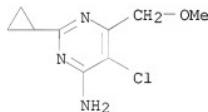
RN 1045230-15-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 3-oxyethyl ester (CA INDEX NAME)



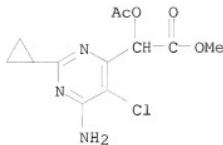
RN 1045230-19-0 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-(methoxymethyl)- (CA INDEX NAME)

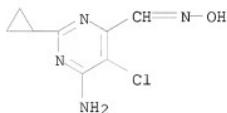


RN 1045230-20-3 CAPLUS

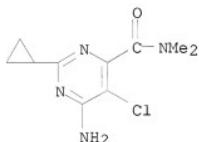
CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetoxy)-6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



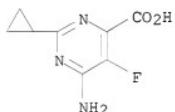
RN 1045230-22-5 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-chloro-2-cyclopropyl-, oxime (CA INDEX NAME)



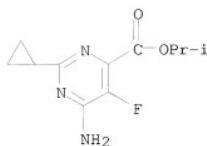
RN 1045230-23-6 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N,N-dimethyl- (CA INDEX NAME)



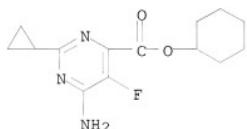
RN 1045230-27-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



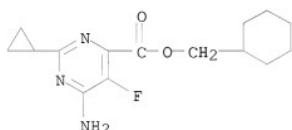
RN 1045230-28-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, 1-methylethyl ester (CA INDEX NAME)



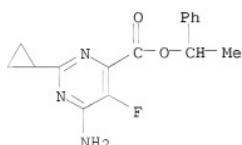
RN 1045230-30-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, cyclohexyl ester (CA INDEX NAME)



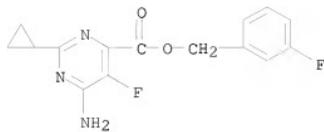
RN 1045230-31-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, cyclohexylmethyl ester (CA INDEX NAME)



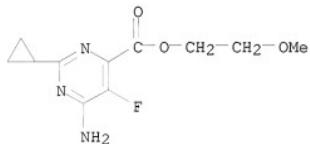
RN 1045230-35-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, 1-phenylethyl ester (CA INDEX NAME)



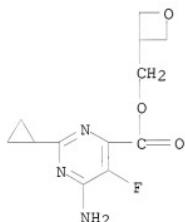
RN 1045230-36-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, (3-fluorophenyl)methyl ester (CA INDEX NAME)



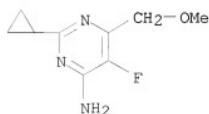
RN 1045230-38-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
 2-methoxyethyl ester (CA INDEX NAME)



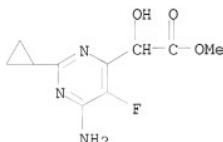
RN 1045230-39-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-,  
 3-oxetanymethyl ester (CA INDEX NAME)



RN 1045230-43-0 CAPLUS  
 CN 4-Pyrimidinamine, 2-cyclopropyl-5-fluoro-6-(methoxymethyl)- (CA INDEX NAME)

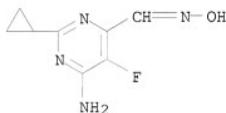


RN 1045230-45-2 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl-5-fluoro- $\alpha$ -hydroxy-, methyl ester (CA INDEX NAME)

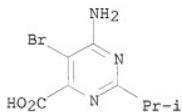
RN 1045230-46-3 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-fluoro-, oxime (CA INDEX NAME)



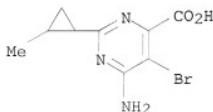
RN 1045230-58-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)- (CA INDEX NAME)



RN 1045230-59-8 CAPLUS

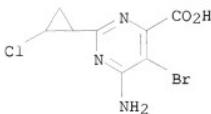
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)- (CA INDEX NAME)



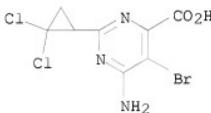
RN 1045230-61-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)- (CA INDEX NAME)

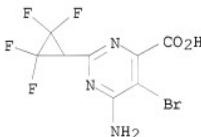
INDEX NAME)



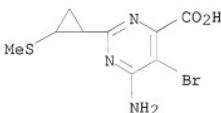
RN 1045230-62-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)-  
 (CA INDEX NAME)



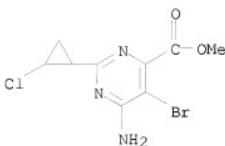
RN 1045230-66-7 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED



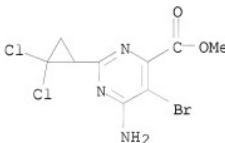
RN 1045230-82-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-[2-(methylthio)cyclopropyl]-  
 (CA INDEX NAME)



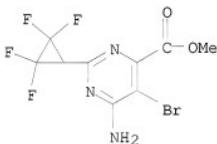
RN 1045230-84-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)-,  
 methyl ester (CA INDEX NAME)



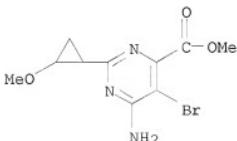
RN 1045230-86-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)-, methyl ester (CA INDEX NAME)



RN 1045230-88-3 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED

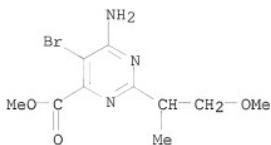


RN 1045231-01-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-, methyl ester (CA INDEX NAME)



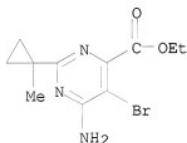
RN 1045231-02-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxy-1-methylethyl)-,

methyl ester (CA INDEX NAME)



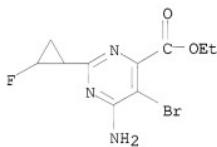
RN 1045231-04-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)



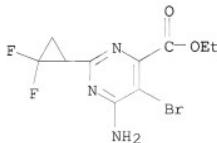
RN 1045231-07-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)-, ethyl ester (CA INDEX NAME)

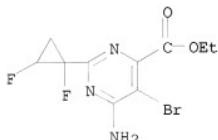


RN 1045231-09-1 CAPLUS

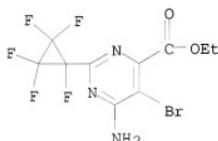
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



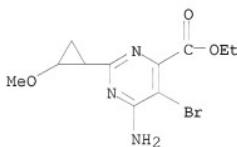
RN 1045231-10-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



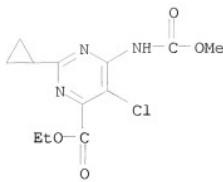
RN 1045231-12-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



RN 1045231-23-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-, ethyl ester (CA INDEX NAME)

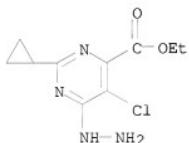


RN 1045231-57-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(methoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



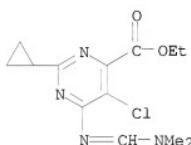
RN 1045231-59-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-hydrazinyl-, ethyl ester (CA INDEX NAME)



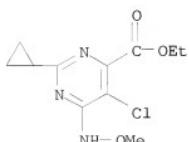
RN 1045231-62-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(dimethylamino)methylene]amino-, ethyl ester (CA INDEX NAME)



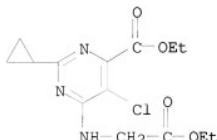
RN 1045231-63-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methoxyamino)-, ethyl ester (CA INDEX NAME)



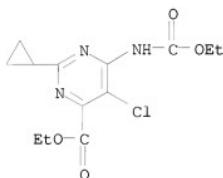
RN 1045231-65-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



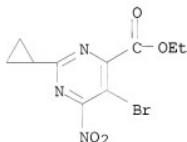
RN 1045231-66-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(ethoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



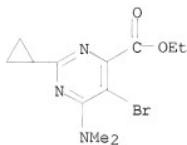
RN 1045231-70-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-nitro-, ethyl ester (CA INDEX NAME)

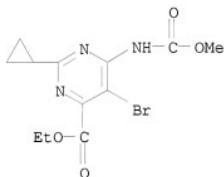


RN 1045231-71-7 CAPLUS

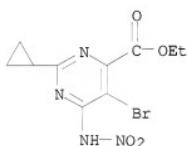
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(dimethylamino)-, ethyl ester (CA INDEX NAME)



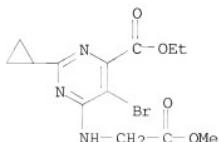
RN 1045231-73-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methoxycarbonyl)amino]-, ethyl ester (CA INDEX NAME)



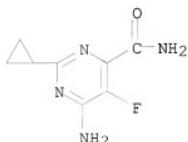
RN 1045231-74-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(nitroamino)-, ethyl ester (CA INDEX NAME)



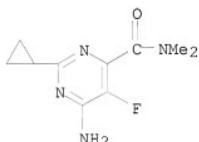
RN 1045231-78-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



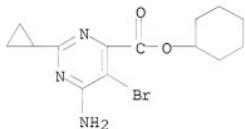
RN 1045232-62-9 CAPLUS  
CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



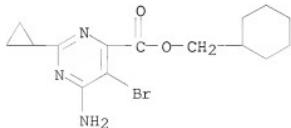
RN 1045232-64-1 CAPLUS  
CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-fluoro-N,N-dimethyl- (CA INDEX NAME)



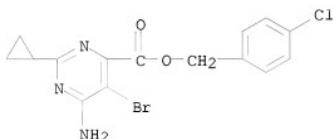
RN 1045232-68-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, cyclohexyl ester (CA INDEX NAME)



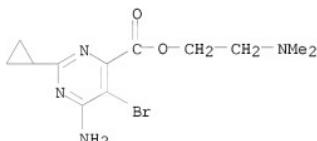
RN 1045232-69-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, cyclohexylmethyl ester (CA INDEX NAME)



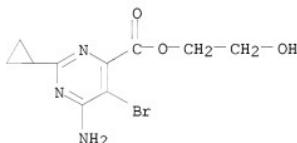
RN 1045232-71-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 (4-chlorophenyl)methyl ester (CA INDEX NAME)



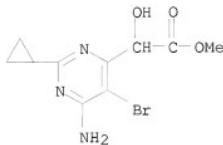
RN 1045232-72-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 2-(dimethylamino)ethyl ester (CA INDEX NAME)



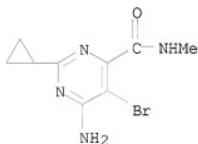
RN 1045232-76-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 2-hydroxyethyl ester (CA INDEX NAME)



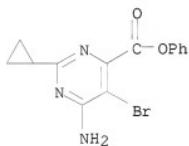
RN 1045232-77-6 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- $\alpha$ -hydroxy-,  
 methyl ester (CA INDEX NAME)



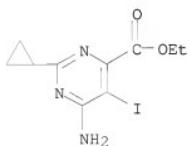
RN 1045232-79-8 CAPLUS  
CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl-N-methyl- (CA INDEX NAME)



RN 1045232-80-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenyl ester (CA INDEX NAME)

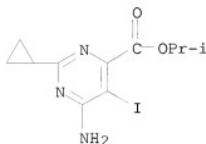


RN 1045232-83-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-ido-, ethyl ester (CA INDEX NAME)



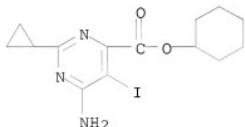
RN 1045232-85-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 1-methylethyl ester (CA INDEX NAME)



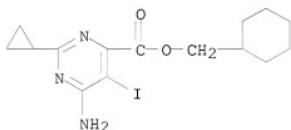
RN 1045232-87-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, cyclohexyl ester (CA INDEX NAME)



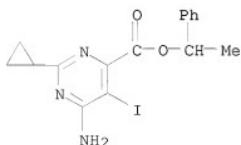
RN 1045232-88-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, cyclohexylmethyl ester (CA INDEX NAME)

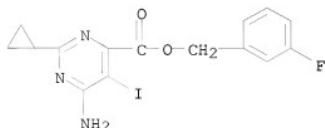


RN 1045232-91-4 CAPLUS

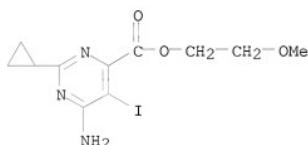
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 1-phenylethyl ester (CA INDEX NAME)



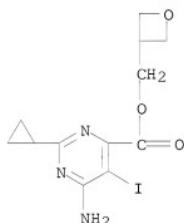
RN 1045232-92-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,  
(3-fluorophenyl)methyl ester (CA INDEX NAME)



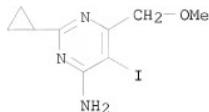
RN 1045232-95-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, 2-methoxyethyl ester (CA INDEX NAME)



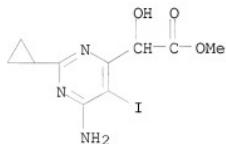
RN 1045232-96-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-,  
3-oxetanymethyl ester (CA INDEX NAME)



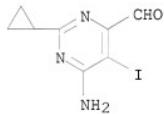
RN 1045232-99-2 CAPLUS  
CN 4-Pyrimidinamine, 2-cyclopropyl-5-iodo-6-(methoxymethyl)- (CA INDEX NAME)



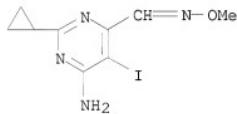
RN 1045233-00-8 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-2-cyclopropyl- $\alpha$ -hydroxy-5-iodo-,  
 methyl ester (CA INDEX NAME)



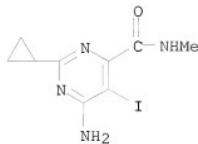
RN 1045233-03-1 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-iodo- (CA INDEX NAME)



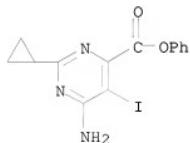
RN 1045233-04-2 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-iodo-, O-methyloxime  
 (CA INDEX NAME)



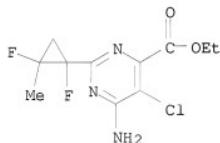
RN 1045233-07-5 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-2-cyclopropyl-5-iodo-N-methyl- (CA INDEX  
 NAME)



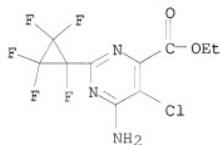
RN 1045233-08-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, phenyl ester  
(CA INDEX NAME)



RN 1045233-26-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluoro-2-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)

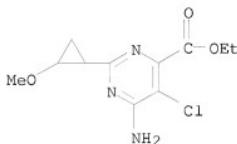


RN 1045233-28-0 CAPLUS  
CN 4-Pyrimidinocarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)-, ethyl ester (CA INDEX NAME)

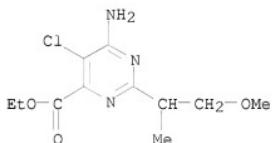


RN 1045233-36-0 CAPLUS

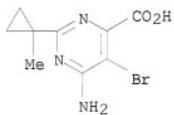
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxycyclopropyl)-, ethyl ester (CA INDEX NAME)



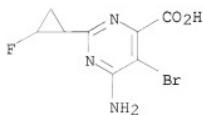
RN 1045233-37-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-methoxy-1-methylethyl)-, ethyl ester (CA INDEX NAME)



RN 1045233-41-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)- (CA INDEX NAME)

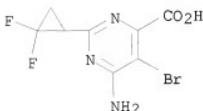


RN 1045233-42-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)- (CA INDEX NAME)

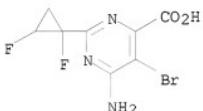


RN 1045233-44-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)-

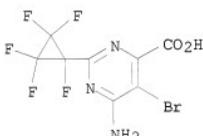
(CA INDEX NAME)



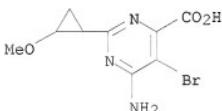
RN 1045233-45-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)-  
 (CA INDEX NAME)



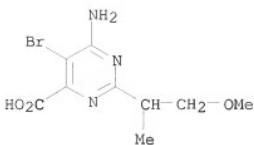
RN 1045233-49-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)- (CA INDEX NAME)



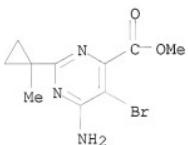
RN 1045233-61-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxycyclopropyl)-  
 (CA INDEX NAME)



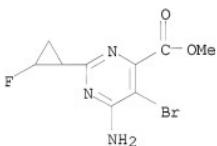
RN 1045233-65-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methoxy-1-methylethyl)-  
 (CA INDEX NAME)



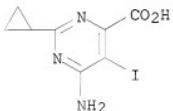
RN 1045233-67-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



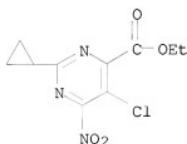
RN 1045233-68-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-fluorocyclopropyl)-, methyl ester (CA INDEX NAME)



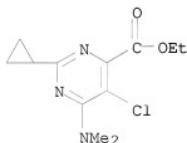
RN 1045233-74-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, potassium salt (1:1) (CA INDEX NAME)



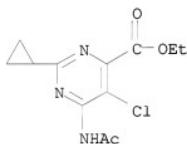
RN 1045234-22-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-nitro-, ethyl ester  
 (CA INDEX NAME)



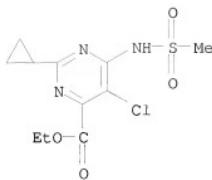
RN 1045234-23-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(dimethylamino)-, ethyl ester (CA INDEX NAME)



RN 1045234-27-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-chloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)

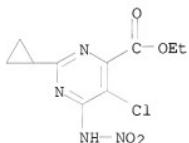


RN 1045234-28-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(methylsulfonyl)amino]-, ethyl ester (CA INDEX NAME)



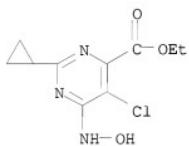
RN 1045234-30-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(nitroamino)-, ethyl ester (CA INDEX NAME)



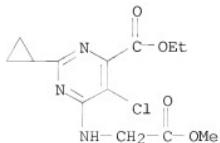
RN 1045234-31-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(hydroxyamino)-, ethyl ester (CA INDEX NAME)

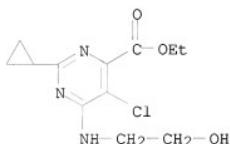


RN 1045234-35-2 CAPLUS

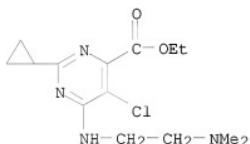
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



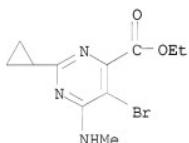
RN 1045234-36-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, ethyl ester (CA INDEX NAME)



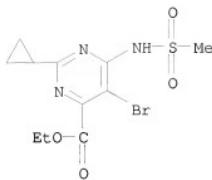
RN 1045234-38-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(dimethylamino)ethyl)amino]-, ethyl ester (CA INDEX NAME)



RN 1045234-39-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methylamino)-, ethyl ester (CA INDEX NAME)

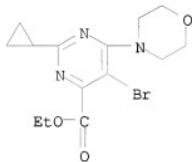


RN 1045234-43-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methylsulfonyl)amino]-, ethyl ester (CA INDEX NAME)



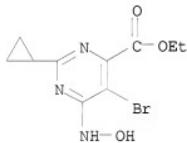
RN 1045234-44-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(4-morpholinyl)-, ethyl ester (CA INDEX NAME)



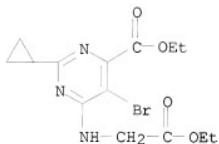
RN 1045234-46-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(hydroxyamino)-, ethyl ester (CA INDEX NAME)

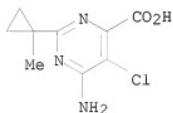


RN 1045234-47-6 CAPLUS

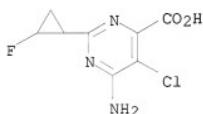
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, ethyl ester (CA INDEX NAME)



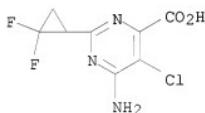
RN 1045234-86-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)-  
 (CA INDEX NAME)



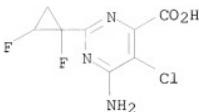
RN 1045234-87-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-  
 (CA INDEX NAME)



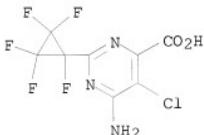
RN 1045234-88-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-  
 (CA INDEX NAME)



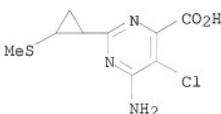
RN 1045234-91-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluorocyclopropyl)-  
 (CA INDEX NAME)



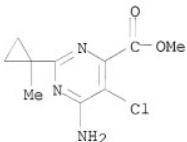
RN 1045234-94-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)- (CA INDEX NAME)



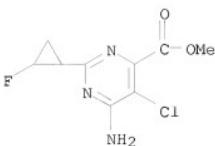
RN 1045235-01-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-[2-(methylthio)cyclopropyl]- (CA INDEX NAME)



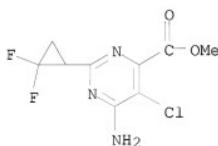
RN 1045235-04-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



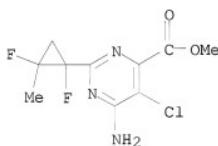
RN 1045235-05-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-, methyl ester (CA INDEX NAME)



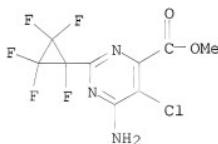
RN 1045235-07-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-methyl ester (CA INDEX NAME)



RN 1045235-09-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2-difluoro-2-methylcyclopropyl)-methyl ester (CA INDEX NAME)

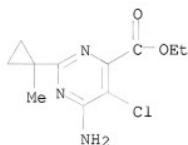


RN 1045235-11-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1,2,2,3,3-pentafluorocyclopropyl)-methyl ester (CA INDEX NAME)



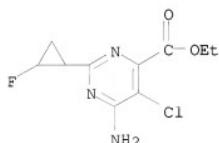
RN 1045235-27-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylcyclopropyl)-

ethyl ester (CA INDEX NAME)



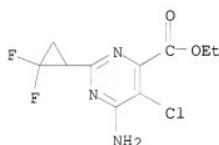
RN 1045235-29-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2-fluorocyclopropyl)-, ethyl ester (CA INDEX NAME)



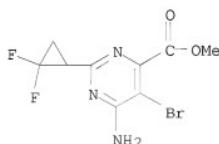
RN 1045235-31-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(2,2-difluorocyclopropyl)-, ethyl ester (CA INDEX NAME)

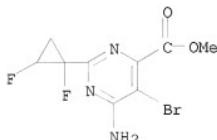


RN 1045235-78-6 CAPLUS

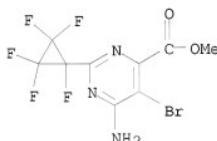
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-difluorocyclopropyl)-, methyl ester (CA INDEX NAME)



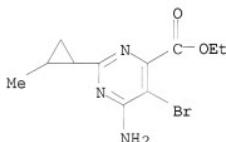
RN 1045235-82-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2-difluorocyclopropyl)-, methyl ester (CA INDEX NAME)



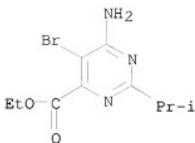
RN 1045235-83-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,2,2,3,3-pentafluorocyclopropyl)-, methyl ester (CA INDEX NAME)



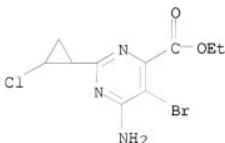
RN 1045235-99-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)-, ethyl ester (CA INDEX NAME)



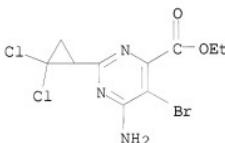
RN 1045236-01-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



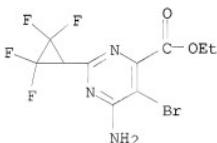
RN 1045236-02-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-chlorocyclopropyl)-, ethyl ester (CA INDEX NAME)



RN 1045236-06-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2,2-dichlorocyclopropyl)-, ethyl ester (CA INDEX NAME)

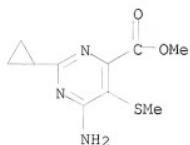


RN 1045236-07-4 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED



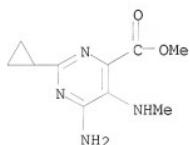
RN 1045236-23-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylthio)-, methyl

ester (CA INDEX NAME)



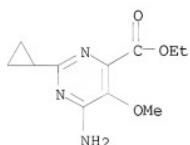
RN 1045236-25-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(methylamino)-, methyl ester (CA INDEX NAME)



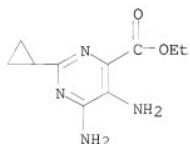
RN 1045236-30-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-methoxy-, ethyl ester (CA INDEX NAME)

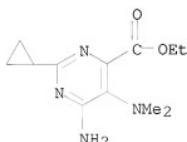


RN 1045236-31-4 CAPLUS

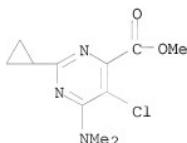
CN 4-Pyrimidinecarboxylic acid, 5,6-diamino-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



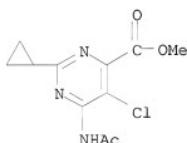
RN 1045236-32-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-(dimethylamino)-, ethyl ester (CA INDEX NAME)



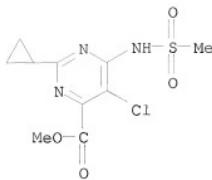
RN 1045236-34-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(dimethylamino)-, methyl ester (CA INDEX NAME)



RN 1045236-38-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)

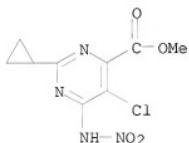


RN 1045236-39-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[{(methylsulfonyl)amino}-, methyl ester (CA INDEX NAME)



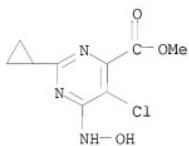
RN 1045236-40-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(nitroamino)-, methyl ester (CA INDEX NAME)



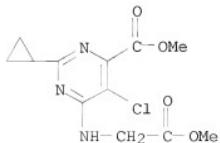
RN 1045236-42-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(hydroxyamino)-, methyl ester (CA INDEX NAME)

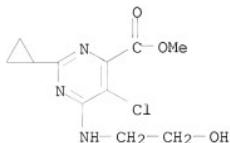


RN 1045236-46-1 CAPLUS

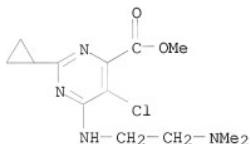
CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)



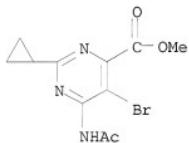
RN 1045236-47-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-hydroxyethyl)amino]-, methyl ester (CA INDEX NAME)



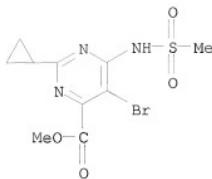
RN 1045236-48-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-[(2-(dimethylamino)ethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1045236-50-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)

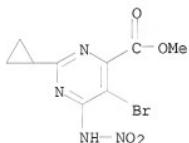


RN 1045236-54-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(methylsulfonyl)amino]-, methyl ester (CA INDEX NAME)



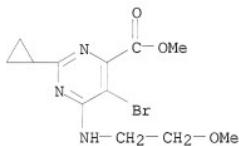
RN 1045236-55-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(nitroamino)-, methyl ester (CA INDEX NAME)



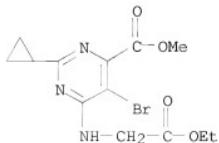
RN 1045236-57-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxyethyl)amino]-, methyl ester (CA INDEX NAME)



RN 1045236-58-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-ethoxy-2-oxoethyl)amino]-, methyl ester (CA INDEX NAME)

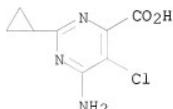


IT 858956-08-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of herbicidal pyrimidines)

RN 858956-08-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)



IT 858954-76-4P 858954-77-5P 858954-78-6P

858954-79-7P 858954-80-0P 858954-81-1P

858954-82-2P 858954-83-3P 858954-84-4P

858954-85-5P 858954-86-6P 858954-87-7P

858954-88-8P 858954-89-9P 858954-90-2P

858954-91-3P 858954-93-5P 858954-94-6P

858954-95-7P 858954-96-8P 858954-98-0P

858954-99-1P 858955-00-7P 858955-01-8P

858955-02-9P 858955-03-0P 858955-04-1P

858955-05-2P 858955-06-3P 858955-07-4P

858955-08-5P 858955-09-6P 858955-11-0P

858955-12-1P 858955-13-2P 858955-15-4P

858955-18-7P 858955-19-8P 858955-20-1P

858955-21-2P 858955-22-3P 858955-23-4P

858955-24-5P 858955-25-6P 858955-26-7P

858955-27-8P 858955-28-9P 858955-29-0P

858955-30-3P 858955-32-5P 858955-48-3P

858955-49-4P 858955-50-7P 858955-51-8P

858955-52-9P 858955-53-0P 858955-54-1P

858955-58-5P 858955-81-4P 858955-82-5P

858955-83-6P 858955-85-8P 858955-86-9P

858955-88-1P 858955-89-2P 858955-97-2P

858955-98-3P 858955-99-4P 858956-05-5P

858956-12-4P 858956-13-5P 858956-14-6P

858956-15-7P 858956-16-8P 858956-17-9P

858956-18-0P 858956-19-1P 858956-20-4P

858956-21-5P 858956-22-6P 858956-29-3P

858956-30-6P 858956-31-7P 858956-32-8P

858956-33-9P 858956-34-0P 858956-35-1P

858956-36-2P 858956-40-8P 858956-41-9P

858956-42-0P 858956-43-1P 858956-44-2P

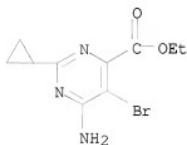
858956-45-3P 858956-46-4P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of herbicidal pyrimidines)

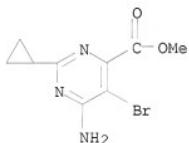
RN 858954-76-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester

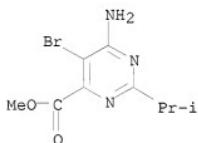
(CA INDEX NAME)



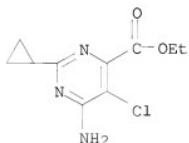
RN 858954-77-5 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester  
(CA INDEX NAME)

RN 858954-78-6 CAPLUS

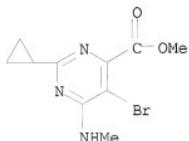
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1-methylethyl)-, methyl ester  
(CA INDEX NAME)

RN 858954-79-7 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, ethyl ester  
(CA INDEX NAME)

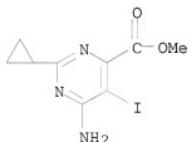
RN 858954-80-0 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methylamino)-, methyl ester (CA INDEX NAME)



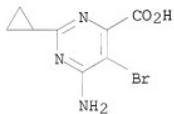
RN 858954-81-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-iodo-, methyl ester (CA INDEX NAME)



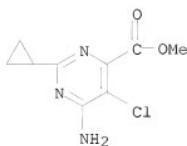
RN 858954-82-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)

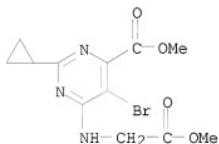


RN 858954-83-3 CAPLUS

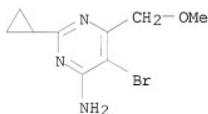
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, methyl ester (CA INDEX NAME)



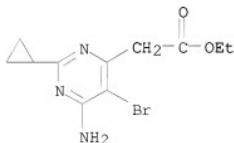
RN 858954-84-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxy-2-oxoethyl)aminol]-, methyl ester (CA INDEX NAME)



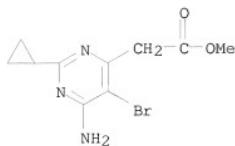
RN 858954-85-5 CAPLUS  
 CN 4-Pyrimidinamine, 5-bromo-2-cyclopropyl-6-(methoxymethyl)- (CA INDEX NAME)



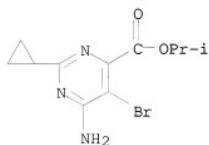
RN 858954-86-6 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



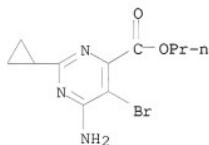
RN 858954-87-7 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl-, methyl ester (CA INDEX NAME)



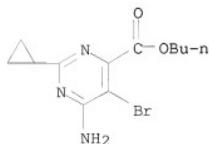
RN 858954-88-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, 1-methylethyl ester (CA INDEX NAME)



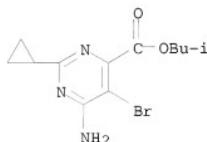
RN 858954-89-9 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, propyl ester (CA INDEX NAME)



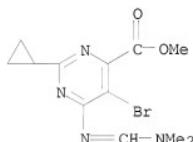
RN 858954-90-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, butyl ester (CA INDEX NAME)



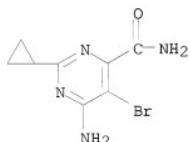
RN 858954-91-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-,  
 2-methylpropyl ester (CA INDEX NAME)



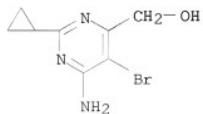
RN 858954-93-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(dimethylamino)methylene]amino-, methyl ester (CA INDEX NAME)



RN 858954-94-6 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)

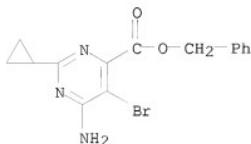


RN 858954-95-7 CAPLUS  
 CN 4-Pyrimidinemethanol, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



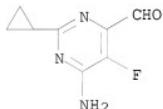
RN 858954-96-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



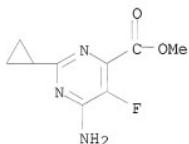
RN 858954-98-0 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-2-cyclopropyl-5-fluoro- (CA INDEX NAME)



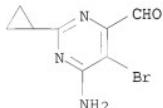
RN 858954-99-1 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, methyl ester (CA INDEX NAME)



RN 858955-00-7 CAPLUS

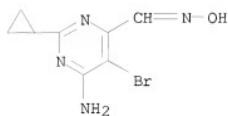
CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl- (CA INDEX NAME)



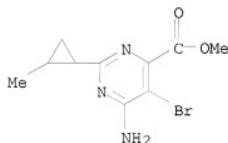
RN 858955-01-8 CAPLUS

CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, oxime (CA INDEX NAME)

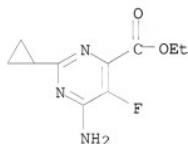
INDEX NAME)



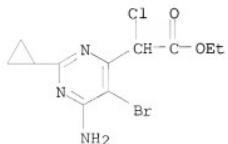
RN 858955-02-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(2-methylcyclopropyl)-, methyl ester (CA INDEX NAME)



RN 858955-03-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-fluoro-, ethyl ester (CA INDEX NAME)

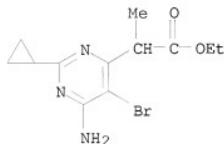


RN 858955-04-1 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-5-bromo- $\alpha$ -chloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



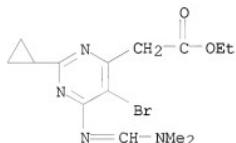
RN 858955-05-2 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- $\alpha$ -methyl-, ethyl ester (CA INDEX NAME)



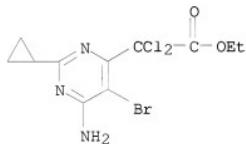
RN 858955-06-3 CAPLUS

CN 4-Pyrimidineacetic acid, 5-bromo-2-cyclopropyl-6-[[(dimethylamino)methylene]amino]-, ethyl ester (CA INDEX NAME)



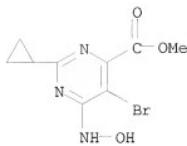
RN 858955-07-4 CAPLUS

CN 4-Pyrimidineacetic acid, 6-amino-5-bromo- $\alpha,\alpha$ -dichloro-2-cyclopropyl-, ethyl ester (CA INDEX NAME)

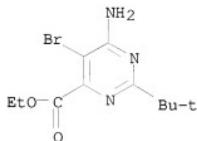


RN 858955-08-5 CAPLUS

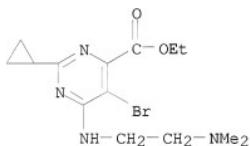
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(hydroxyamino)-, methyl ester (CA INDEX NAME)



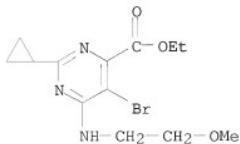
RN 858955-09-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-(1,1-dimethylethyl)-, ethyl ester (CA INDEX NAME)



RN 858955-11-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-(dimethylamino)ethyl]amino]-, ethyl ester (CA INDEX NAME)

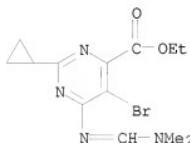


RN 858955-12-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(2-methoxyethyl)amino]-, ethyl ester (CA INDEX NAME)



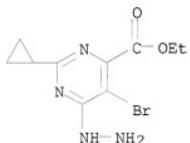
RN 858955-13-2 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(dimethylamino)methylene]aminol-, ethyl ester (CA INDEX NAME)



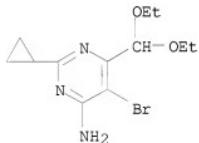
RN 858955-15-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-hydrazinyl-, ethyl ester (CA INDEX NAME)



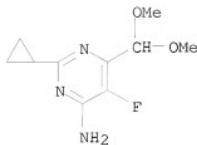
RN 858955-18-7 CAPLUS

CN 4-Pyrimidinamine, 5-bromo-2-cyclopropyl-6-(diethoxymethyl)- (CA INDEX NAME)

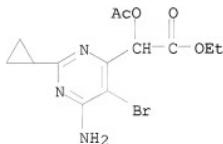


RN 858955-19-8 CAPLUS

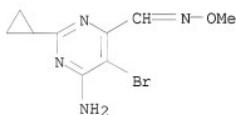
CN 4-Pyrimidinamine, 2-cyclopropyl-6-(dimethoxymethyl)-5-fluoro- (CA INDEX NAME)



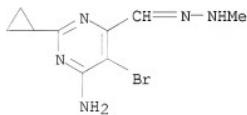
RN 858955-20-1 CAPLUS  
 CN 4-Pyrimidineacetic acid,  $\alpha$ -(acetyloxy)-6-amino-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



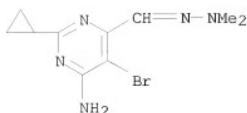
RN 858955-21-2 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, O-methyloxime (CA INDEX NAME)



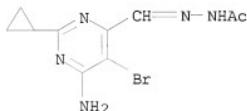
RN 858955-22-3 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, 2-methylhydrazone (CA INDEX NAME)



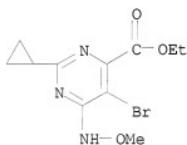
RN 858955-23-4 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 6-amino-5-bromo-2-cyclopropyl-, 2,2-dimethylhydrazone (CA INDEX NAME)



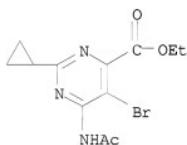
RN 858955-24-5 CAPLUS  
 CN Acetic acid, 2-[(6-amino-5-bromo-2-cyclopropyl-4-pyrimidinyl)methylene]hydrazide (CA INDEX NAME)



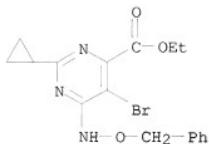
RN 858955-25-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(methoxyamino)-ethyl ester (CA INDEX NAME)



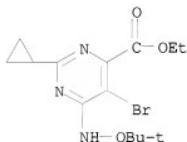
RN 858955-26-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-(acetylamino)-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)



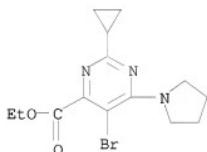
RN 858955-27-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(phenylmethoxy)amino]-ethyl ester (CA INDEX NAME)



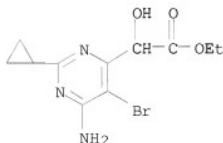
RN 858955-28-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-[(1,1-dimethylethoxy)amino]-, ethyl ester (CA INDEX NAME)



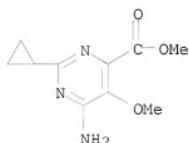
RN 858955-29-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(1-pyrrolidinyl)-, ethyl ester (CA INDEX NAME)



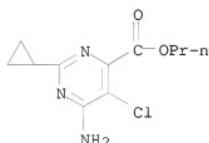
RN 858955-30-3 CAPLUS  
 CN 4-Pyrimidineacetic acid, 6-amino-5-bromo-2-cyclopropyl- $\alpha$ -hydroxy-, ethyl ester (CA INDEX NAME)



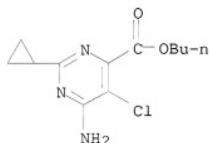
RN 858955-32-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-2-cyclopropyl-5-methoxy-, methyl ester (CA INDEX NAME)



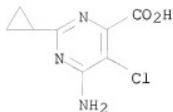
RN 858955-48-3 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, propyl ester (CA INDEX NAME)



RN 858955-49-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, butyl ester (CA INDEX NAME)

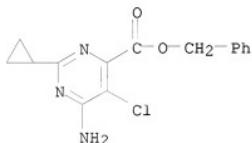


RN 858955-50-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)

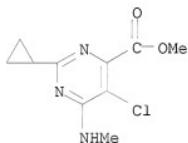


● Na

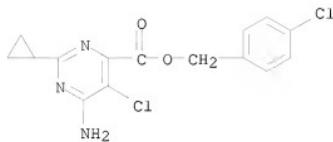
RN 858955-51-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, phenylmethyl ester (CA INDEX NAME)



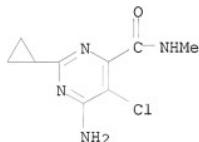
RN 858955-52-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-chloro-2-cyclopropyl-6-(methylamino)-, methyl ester (CA INDEX NAME)



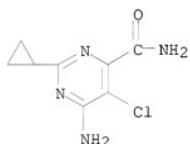
RN 858955-53-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, (4-chlorophenyl)methyl ester (CA INDEX NAME)



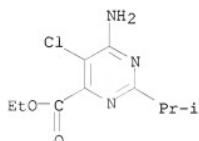
RN 858955-54-1 CAPLUS  
CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N-methyl- (CA INDEX NAME)



RN 858955-58-5 CAPLUS  
CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl- (CA INDEX NAME)

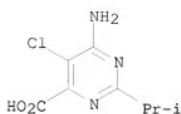


RN 858955-81-4 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, ethyl ester (CA INDEX NAME)



RN 858955-82-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, sodium

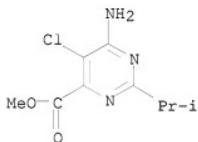
salt (1:1) (CA INDEX NAME)



● Na

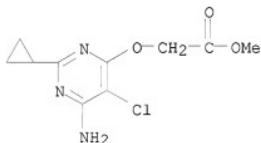
RN 858955-83-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-(1-methylethyl)-, methyl ester (CA INDEX NAME)



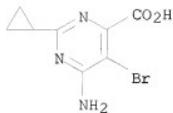
RN 858955-85-8 CAPLUS

CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-, methyl ester (CA INDEX NAME)



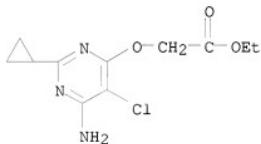
RN 858955-86-9 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-bromo-2-cyclopropyl-, sodium salt (1:1) (CA INDEX NAME)

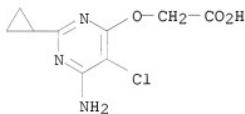


● Na

RN 858955-88-1 CAPLUS  
CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-, ethyl ester (CA INDEX NAME)

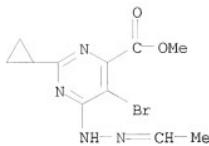


RN 858955-89-2 CAPLUS  
CN Acetic acid, 2-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)oxy]-, sodium salt (1:1) (CA INDEX NAME)

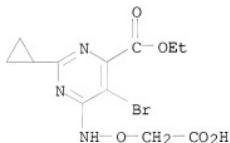


● Na

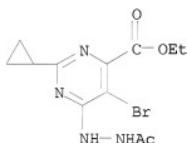
RN 858955-97-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 5-bromo-2-cyclopropyl-6-(2-ethylidenehydrazinyl)-, methyl ester (CA INDEX NAME)



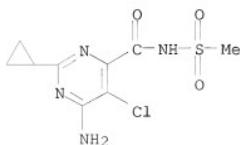
RN 858955-98-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 5-bromo-6-[(carboxymethoxy)amino]-2-cyclopropyl-, 4-ethyl ester (CA INDEX NAME)



RN 858955-99-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-(2-acetylhydrazinyl)-5-bromo-2-cyclopropyl-, ethyl ester (CA INDEX NAME)

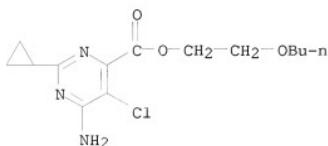


RN 858956-05-5 CAPLUS  
 CN 4-Pyrimidinecarboxamide, 6-amino-5-chloro-2-cyclopropyl-N-(methylsulfonyl)-(CA INDEX NAME)

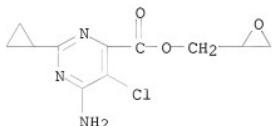


RN 858956-12-4 CAPLUS

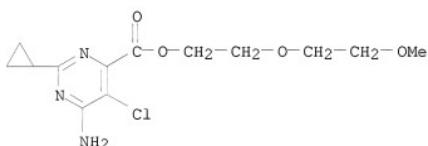
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-butoxyethyl ester (CA INDEX NAME)



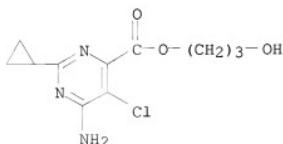
RN 858956-13-5 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-oxiranylmethyl ester (CA INDEX NAME)



RN 858956-14-6 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
2-(2-methoxyethoxy)ethyl ester (CA INDEX NAME)



RN 858956-15-7 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
3-hydroxypropyl ester (CA INDEX NAME)



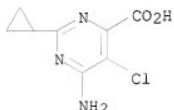
RN 858956-16-8 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
2-propanamine (1:1) (CA INDEX NAME)

CM 1

CRN 858956-08-8

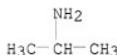
CMF C8 H8 Cl N3 O2



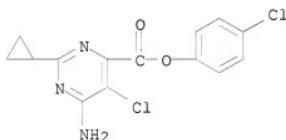
CM 2

CRN 75-31-0

CMF C3 H9 N

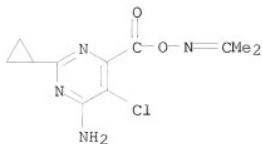


RN 858956-17-9 CAPLUS

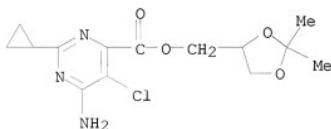
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
4-chlorophenyl ester (CA INDEX NAME)

RN 858956-18-0 CAPLUS

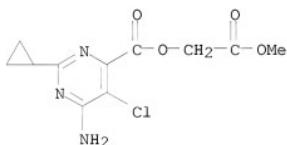
CN 2-Propanone, O-[(6-amino-5-chloro-2-cyclopropyl-4-pyrimidinyl)carbonyl]oxime (CA INDEX NAME)



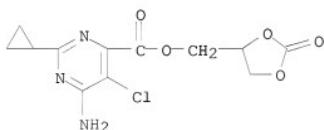
RN 858956-19-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 (2,2-dimethyl-1,3-dioxolan-4-yl)methyl ester (CA INDEX NAME)



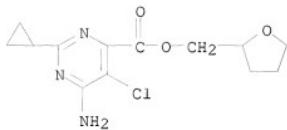
RN 858956-20-4 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 2-methoxy-2-oxoethyl ester (CA INDEX NAME)



RN 858956-21-5 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 (2-oxo-1,3-dioxolan-4-yl)methyl ester (CA INDEX NAME)



RN 858956-22-6 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 (tetrahydro-2-furanyl)methyl ester (CA INDEX NAME)



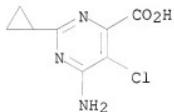
RN 858956-29-3 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with cyclohexanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 858956-08-8

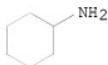
CMF C8 H8 Cl N3 O2



CM 2

CRN 108-91-8

CMF C6 H13 N



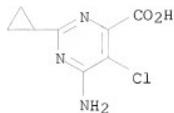
RN 858956-30-6 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with morpholine (1:1) (CA INDEX NAME)

CM 1

CRN 858956-08-8

CMF C8 H8 Cl N3 O2

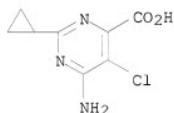


CM 2

CRN 110-91-8  
CMF C4 H9 N O

RN 858956-31-7 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
 2,2'-iminobis[ethanol] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 858956-08-8  
CMF C8 H8 Cl N3 O2

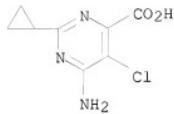
CM 2

CRN 111-42-2  
CMF C4 H11 N O2HO—CH<sub>2</sub>—CH<sub>2</sub>—NH—CH<sub>2</sub>—CH<sub>2</sub>—OH

RN 858956-32-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
 N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 858956-08-8  
CMF C8 H8 Cl N3 O2

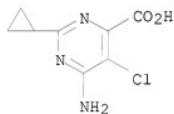


CM 2

CRN 121-44-8  
CMF C6 H15 N

RN 858956-33-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with  
 pyridine (1:1) (9CI) (CA INDEX NAME)

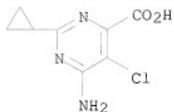
CM 1

CRN 858956-08-8  
CMF C8 H8 Cl N3 O2

CM 2

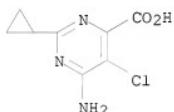
CRN 110-86-1  
CMF C5 H5 N

RN 858956-34-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, lithium salt  
 (1:1) (CA INDEX NAME)



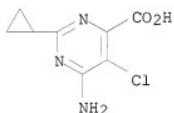
● Li

RN 858956-35-1 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, potassium salt (1:1) (CA INDEX NAME)



● K

RN 858956-36-2 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, cesium salt (1:1) (CA INDEX NAME)

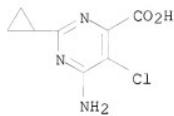


● Cs

RN 858956-40-8 CAPLUS  
CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with 2-aminoethanol (1:1) (CA INDEX NAME)

CM 1

CRN 858956-08-8  
CMF C8 H8 Cl N3 O2

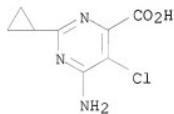


CM 2

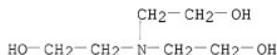
CRN 141-43-5  
CMF C2 H7 N O $\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{OH}$ 

RN 858956-41-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with 2,2',2''-nitriilotris[ethanol] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 858956-08-8  
CMF C8 H8 Cl N3 O2

CM 2

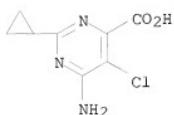
CRN 102-71-6  
CMF C6 H15 N O3

RN 858956-42-0 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, compd. with N-methylmethanamine (1:1) (CA INDEX NAME)

CM 1

CRN 858956-08-8

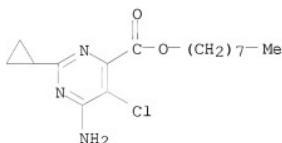
CMF C8 H8 Cl N3 O2



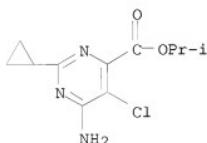
CM 2

CRN 124-40-3  
CMF C2 H7 N $\text{H}_3\text{C}-\text{NH}-\text{CH}_3$ 

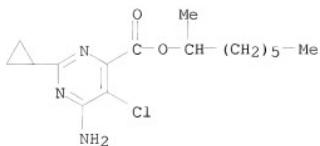
RN 858956-43-1 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, octyl ester  
 (CA INDEX NAME)



RN 858956-44-2 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylethyl ester (CA INDEX NAME)

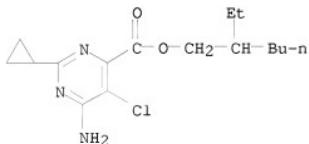


RN 858956-45-3 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-,  
 1-methylheptyl ester (CA INDEX NAME)



RN 858956-46-4 CAPLUS

CN 4-Pyrimidinecarboxylic acid, 6-amino-5-chloro-2-cyclopropyl-, 2-ethylhexyl  
ester (CA INDEX NAME)



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

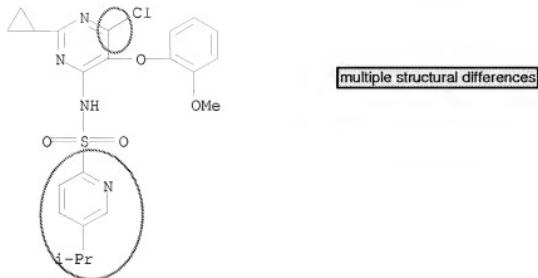
L10 ANSWER 25 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2005:527534 CAPLUS  
 DN 143:7721  
 TI New bis-sulfonamides based on pyrimidine, their pharmaceutical compositions, processes for their preparation, and their use as endothelin antagonists  
 IN Boilli, Martin; Boss, Christoph; Clozel, Martine; Fischli, Walter  
 PA Actelion Pharmaceuticals Ltd., Switz.  
 SO Braz. Pedido PI, 95 pp.  
 CODEN: BPXXDX  
 DT Patent  
 LA Portuguese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI BR 2001002864	A	20030729	BR 2001-2864	20010712
PRAI BR 2001-2864		20010712		
OS MARPAT 143:7721				

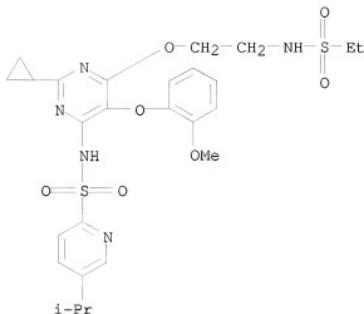
AB Title compds. I are claimed [wherein: R1 = aryl, alkylaryl, alkenylaryl, heteroaryl, alkylheteroaryl; R2 = alkyl, CF<sub>3</sub>, alkoxyalkyl, alkenyl, alkynyl, aryl, arylalkyl, arylalkenyl, heterocyclyl, heterocyclylalkyl, heteroaryl, heteroarylalkyl, cycloalkyl, cycloalkylalkyl; R3 = Ph (or Ph mono-, di-, or trisubstituted by alkyl, alkenyl alkynyl, alkoxy, amino, alkylamino, aminoalkyl, CF<sub>3</sub>, CF<sub>3</sub>O, halo, alkylthio, OH, hydroxyalkyl, cyano, CO<sub>2</sub>H, alkanoyl, or CHO), benzofuranyl, aryl, or heteroaryl; R4 = H, halo, CF<sub>3</sub>, alkyl, aminoalkyl, alkoxy, alkylsulfonyl, alkylsulfonyl, alkylthio, alkylthioalkyl, hydroxyalkyl, amino, dialkylamino, aryl, arylamino, arylthio, heteroaryl, cycloalkyl, heterocyclyl, etc.; R6 = H, alkyl, cycloalkyl, heterocyclyl, heteroaryl, aryl, alkylcycloalkyl, alkylheterocyclyl, alkylheteroaryl, alkylaryl, alkoxyalkyl, alkylthioalkyl, alkylaminoalkyl, alkenyl, alkynyl; n = 2, 3, 4, or 5; X = O, S, NH, CH<sub>2</sub>, or bond; including diastereomers or their mixts., mixts. of diastereomeric racemates, meso forms, and/or pharmaceutically acceptable salts]. Examples include 94 syntheses and several bioassays. For instance, invention compound II was prepared by etherification of HOCH<sub>2</sub>CH<sub>2</sub>NHSO<sub>2</sub>Fr-iso with the corresponding chloropyrimidine derivative in THF in the presence of KOBu-tert. In a test for inhibition of binding of endothelin to human recombinant ETA and ETB receptors, invention compound III had IC<sub>50</sub> values of 14.8 and 1.86 nM, resp. In another test for inhibition of endothelin-induced contractions of isolated rings of rat aorta (ETA) and rat trachea (ETB), II had pA<sub>2</sub> values of 6.73 and 5.9, whereas III had values of 6.16 and 7.95, showing reversed selectivity. Claims cover pharmaceutical compns. for treatment of (a) circulatory disorders such as hypertension, ischemia, vasospasm, and angina pectoris, as well as proliferative disorders such as cancer, or (b) other endothelin-related disorders such as migraine, asthma, or inflammatory disorders. Claims cover compds. which block both ETA and ETB, as well as those which are selective for either one.

IT 329924-30-3P  
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (drug candidate; preparation of pyrimidine bisulfonamides as endothelin antagonists)

RN 329924-30-3 CAPLUS  
 CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)-(CA INDEX NAME)

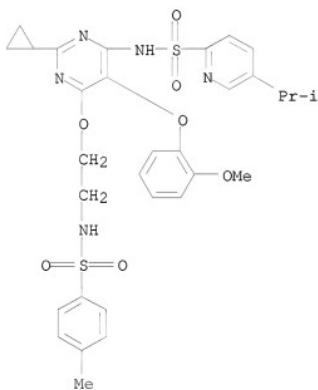


- IT 329924-34-7P 329924-36-9P 329924-41-6P  
 329924-43-8P, 4-tert-Butyl-N-[6-[2-[(4-methylbenzenesulfonyl)amino]ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropylpyrimidin-4-yl]benzenesulfonamide 329924-54-1P,  
 4-tert-Butyl-N-[6-[2-[(ethanesulfonyl)amino]ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropylpyrimidin-4-yl]benzenesulfonamide 329925-16-8P,  
 p-tert-Butyl-N-[6-[3-(ethanesulfonylamino)propoxyl-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]benzenesulfonamide 329925-17-9P  
 329925-20-4P, 5-Isopropyl-N-[6-[2-(1-propanesulfonylamino)ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamide  
 329925-21-5P, 5-Isopropyl-N-[6-[2-(2-thiophenesulfonylamino)ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamide 329925-22-6P,  
 5-Isopropyl-N-[6-[2-(2-propanesulfonylamino)ethoxy]-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamide 329925-27-1P,  
 5-Isopropyl-N-[6-[3-(ethanesulfonyl)amino]propoxyl-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamide 329925-28-2P  
 329925-29-3P 329925-30-6P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; preparation of pyrimidine bissulfonamides as endothelin antagonists)
- RN 329924-34-7 CAPLUS  
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



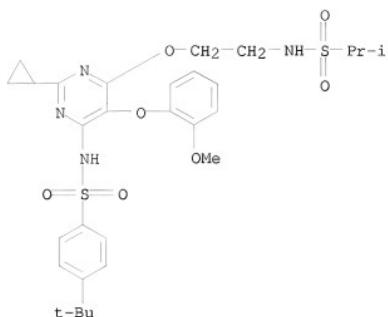
RN 329924-36-9 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{2-[(4-methylphenyl)sulfonyl]amino]ethoxy}-4-pyrimidinyl]-5-(1-methylethyl)-(CA INDEX NAME)



RN 329924-41-6 CAPLUS

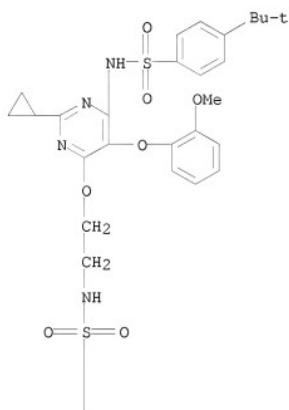
CN Benzenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{2-[(1-methylethyl)sulfonyl]amino]ethoxy}-4-pyrimidinyl]-4-(1,1-dimethylethyl)-(CA INDEX NAME)



RN 329924-43-8 CAPLUS

CN Benzenesulfonamide, N-[2-[(2-cyclopropyl-6-[[[4-(1,1-dimethyl-1-phenylsulfonyl)amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy)ethyl]-4-methyl- (CA INDEX NAME)

PAGE 1-A

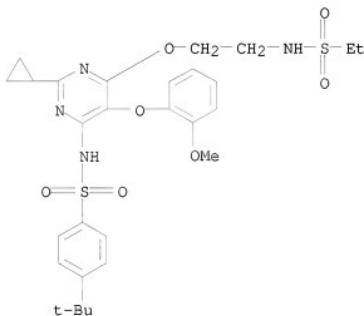


PAGE 2-A



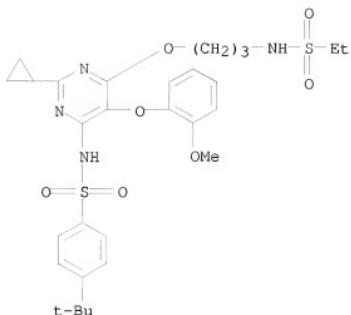
RN 329924-54-1 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



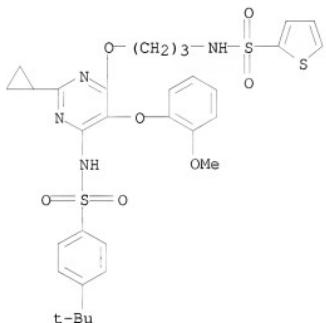
RN 329925-16-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



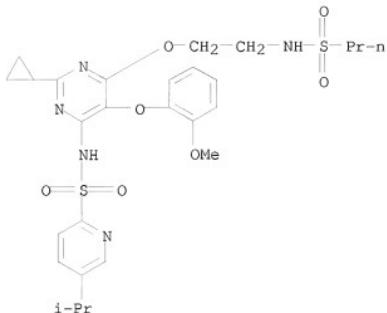
RN 329925-17-9 CAPLUS

CN 2-Thiophenesulfonamide, N-[3-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]propyl] - (CA INDEX NAME)



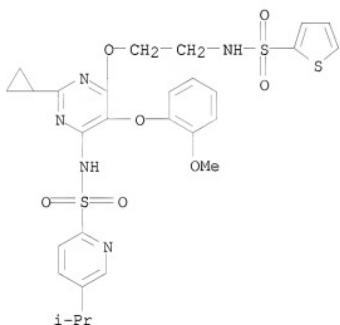
RN 329925-20-4 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl) - (CA INDEX NAME)



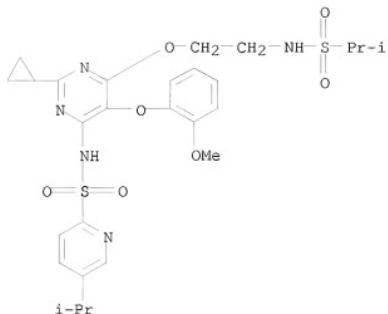
BN 329925-21-5 CAPLUS

AN 52925-21-3 CAS 600-  
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(2-thienylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX  
NAME)



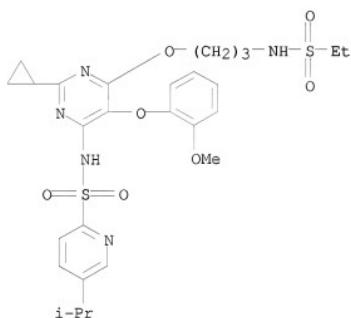
RN 329925-22-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(1-methylethyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)-(CA INDEX NAME)



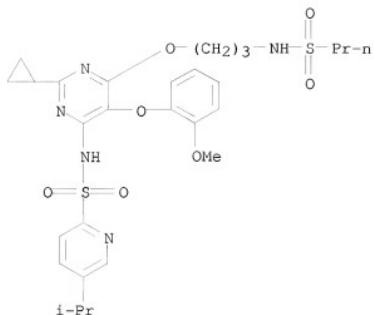
RN 329925-27-1 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



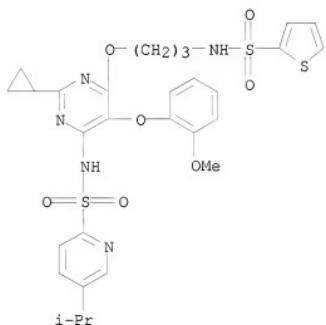
RN 329925-28-2 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(propylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



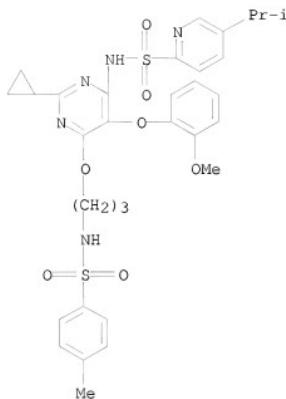
RN 329925-29-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(2-thienylsulfonyl)amino]propoxy]-4-pyrimidinyl-5-(1-methylethyl)]- (CA INDEX NAME)



RN 329925-30-6 CAPLUS

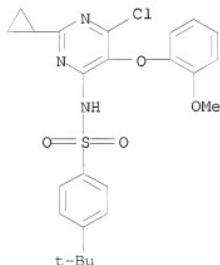
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(4-methylphenyl)sulfonyl]amino]propoxy]-4-pyrimidinyl-5-(1-methylethyl)]- (CA INDEX NAME)



IT 150727-73-4P, 4-tert-Butyl-N-[6-chloro-5-(o-methoxyphenoxy)-2-cyclopropylpyrimidin-4-yl]benzenesulfonamide 329924-32-5P  
 329924-39-2P, 4-tert-Butyl-N-[6-(2-aminoethoxy)-5-(o-methoxyphenoxy)-2-cyclopropylpyrimidin-4-yl]benzenesulfonamide  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of pyrimidine bissulfonamides as endothelin antagonists)

RN 150727-73-4 CAPLUS

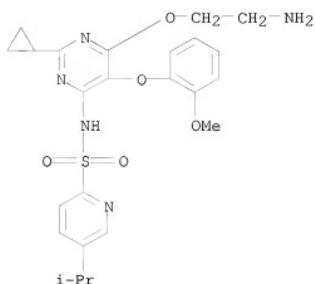
CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 329924-32-5 CAPLUS

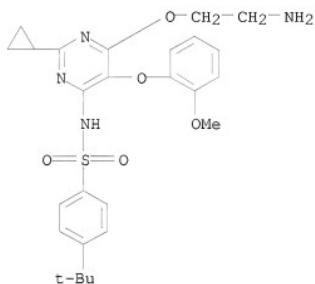
CN 2-Pyridinesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-

(CA INDEX NAME)



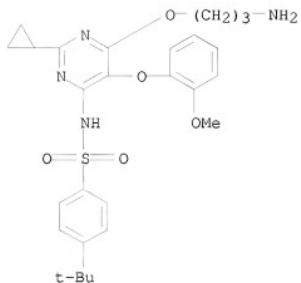
RN 329924-39-2 CAPLUS

CN Benzenesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

IT 329925-15-7 329925-26-0,  
5-Isopropyl-N-[6-(3-aminopropoxy)-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]pyridine-2-sulfonamideRL: RCT (Reactant); RACT (Reactant or reagent)  
(starting material; preparation of pyrimidine bisulfonamides as endothelin antagonists)

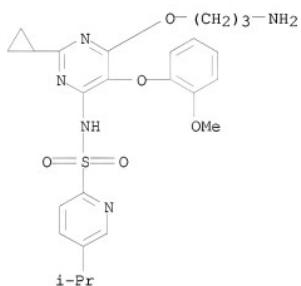
RN 329925-15-7 CAPLUS

CN Benzenesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



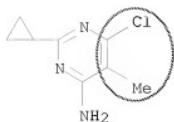
RN 329925-26-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



L10 ANSWER 26 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2005:451376 CAPLUS  
 DN 142:482069  
 TI Preparation of quinoxazolines and related derivatives vanilloid-1 receptor antagonists for treating pain  
 IN Hollingsworth, Gregory John; Jones, Brian A.; McIver, Edward Giles; Moyes, Christopher Richard; Rogers, Lauren  
 PA Merck Sharp & Dohme Limited, UK  
 SO PCT Int. Appl., 108 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005047279	A1	20050526	WO 2004-GB4719	20041109
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, RU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004289518	A1	20050526	AU 2004-289518	20041109
	CA 2545384	A1	20050526	CA 2004-2545384	20041109
	US 20050197342	A1	20050908	US 2004-984336	20041109
	EP 1685124	A1	20060802	EP 2004-798442	20041109
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	JP 2007510706	T	20070426	JP 2006-538935	20041109
	CN 101035780	A	20070912	CN 2004-80039870	20041109
	IN 2006DN02615	A	20070824	IN 2006-DN2615	20060510
PRAI	GB 2003-26217	A	20031110		
	GB 2004-7748	A	20040405		
	US 2004-617134P	P	20041008		
	WO 2004-GB4719	W	20041109		
OS	CASREACT 142:482069; MARPAT 142:482069				
AB	Title compds. Y-J-L-Z [L = amino, O, S, CH <sub>2</sub> ; J = 6-membered heterocycle, etc.; Y = naphthalene, etc.; Z = Ph, naphthyl, etc.; I] are prepared For instance, 4-(Quinolin-8-yl)-N-(4-trifluoromethylphenyl)pyrimidin-2-amine is prepared from 2-Chloro-4-(quinolin-8-yl)pyrimidine (preparation given) and 4-trifluoromethylaniline. I are vanilloid-1 receptor antagonists [no data] useful for the treatment of pain, cough, GERD and depression.				
IT	852061-78-0P, 6-Chloro-2-cyclopropyl-5-methylpyrimidin-4-amine				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(preparation of quinoxazolines and related derivs. vanilloid-1 receptor antagonists for treating pain)				
RN	852061-78-0 CAPLUS				
CN	4-Pyrimidinamine, 6-chloro-2-cyclopropyl-5-methyl- (CA INDEX NAME)				



1. position of chloro substituent  
2. methyl does not fit the  
description of herbicidally  
effective derivative of COOH

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 27 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2004:631750 CAPLUS  
 DN 141:157129

TI Preparation of 9H-purines as inhibitors of TNF- $\alpha$  and phosphodiesterase IV

IN Sakaguchi, Osamu; Takeshita, Makoto; Izumi, Tomoyuki

PA Dainabot Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 78 pp.

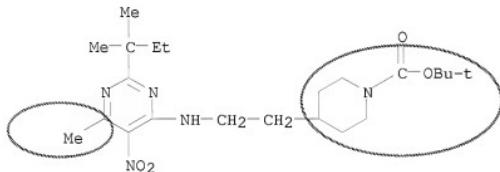
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004217582	A	20040805	JP 2003-8019	20030116
PRAI	JP 2003-8019		20030116		
OS	MARPAT 141:157129				
AB	9H-purines I [R1 = H, OH, (un)substituted (cyclo)alkyl, (un)substituted aryl; R2 = H, (un)substituted alkyl; R3 = H, halo, (un)substituted (cyclo)alkoxy, (un)substituted aralkyloxy, etc.; R4 = H, alkyl, PhCH2, Ac; m = 0-3; X = CH, N; R5 = H, (un)substituted alkyl; R6 = H, (un)substituted (cyclo)alkyl, (un)substituted aralkyl, etc.] or their salts, useful for treatment of rheumatic arthritis, atopic dermatitis, asthma, autoimmune disease, diabetes, tumor, etc., are prepared Thus, I.1.5 fumarate (R1 = Ph, R2 = Me, R3 = NHCOMe3, R4 = H, m = 2, X = CH) inhibited formation of human TNF- $\alpha$ with IC50 value of 33 nM.				
IT	728935-65-7P				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)				
	(preparation of purines as inhibitors of TNF- $\alpha$ and phosphodiesterase IV for treatment of diseases)				
RN	728935-65-7 CAPLUS				
CN	1-Piperidinocarboxylic acid, 4-[2-[(2-(1,1-dimethylpropyl)-6-methyl-5-nitro-4-pyrimidinyl]amino]ethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)				



OSC.G 8

THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L10 ANSWER 28 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2003:837052 CAPLUS  
 DN 139:337980  
 TI Preparation of aminopyrimidines with muscarinic M3 antagonist and PDE IV inhibiting activity  
 IN Provinc, Laurent; Van Keulen, Berend Jan; Surtees, John; Talaga, Patrice; Christophe, Bernard  
 PA UCB, S.A., Belg.  
 SO PCT Int. Appl., 71 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003087064	A1	20031023	WO 2003-EP3299	20030329
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KE, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU	2003222786	A1	20031027	AU 2003-222786	20030329
EP	1499598	A1	20050126	EP 2003-718717	20030329
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US	20060074068	A1	20060406	US 2005-511660	20051005
US	7544675	B2	20090609		
PRAI	EP 2002-8706	A	20020418		
	WO 2003-EP3299	W	20030329		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 139:337980

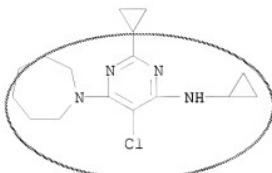
AB Aminopyrimidines I [R = NHR<sub>2</sub>, (un)substituted azetidinyl; R<sub>1</sub> = alkyl, cycloalkyl; R<sub>2</sub> = cycloalkyl; R<sub>3</sub> = H, alkyl, halogen, OH, alkoxy, amino; R<sub>2</sub>R<sub>3</sub> = alkylene; R<sub>4</sub> = H, alkyl; R<sub>5</sub> = cycloalkyl, aralkyl, heterocyclylalkyl; NR<sub>4</sub>R<sub>5</sub> = heterocyclic], combining affinity and antagonism against the human M3 muscarinic receptor with activity as selective phosphodiesterase IV (PDE IV) inhibitors, were prepared Thus, the amine II was prepared from 6-chloro-N,2-dicyclopropyl-5-nitropyrimidin-4-amine by reaction with hexamethylenimine and reduction of the nitro group.

IT 617717-01-8P 617717-03-0P 617717-04-1P  
 617717-06-3P 617718-04-4P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of aminopyrimidines with muscarinic M3 antagonist and PDE IV inhibiting activity)

RN 617717-01-8 CAPLUS  
 CN 4-Pyrimidinamine, 5-chloro-N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-, (2Z)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

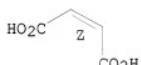
CRN 617717-00-7  
CMF C16 H23 Cl N4



CM 2

CRN 110-16-7  
CMF C4 H4 O4

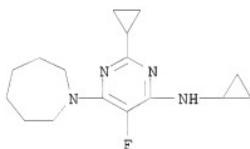
Double bond geometry as shown.



RN 617717-03-0 CAPLUS  
CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(hexahydro-1H-azepin-1-yl)-  
, (2Z)-2-butenedioate (1:1) (CA INDEX NAME)

CM 1

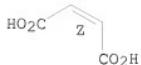
CRN 617717-02-9  
CMF C16 H23 F N4



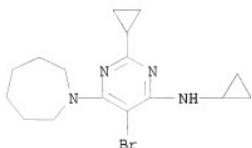
CM 2

CRN 110-16-7  
CMF C4 H4 O4

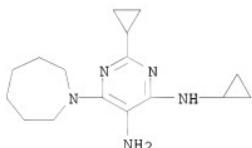
Double bond geometry as shown.



RN 617717-04-1 CAPLUS  
 CN 4-Pyrimidinamine, 5-bromo-N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-  
 (CA INDEX NAME)

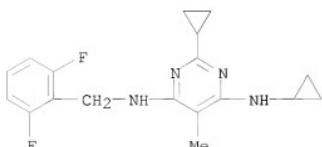


RN 617717-06-3 CAPLUS  
 CN 4,5-Pyrimidinediamine, N4,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-  
 (CA INDEX NAME)



RN 617718-04-4 CAPLUS  
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-N'-[{(2,6-difluorophenyl)methyl]-5-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

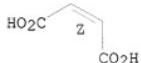
CM 1

CRN 617718-03-3  
CMF C18 H20 F2 N4

CM 2

CRN 110-16-7  
CMF C4 H4 O4

Double bond geometry as shown.

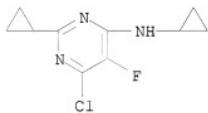


IT 617716-47-9P 617716-51-5P 617716-53-7P  
 617716-55-9P 617716-57-1P 617716-65-1P  
 617716-67-3P 617716-71-9P 617716-72-0P  
 617716-74-2P 617718-42-0P 617718-43-1P  
 617718-44-2P 617718-48-6P 617718-50-0P  
 617718-52-2P 617718-53-3P 617718-54-4P  
 617718-55-5P 617718-93-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of aminopyrimidines with muscarinic M3 antagonist and PDE IV inhibiting activity)

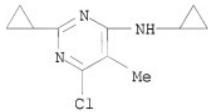
RN 617716-47-9 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-fluoro- (CA INDEX NAME)



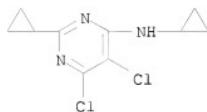
RN 617716-51-5 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-methyl- (CA INDEX NAME)

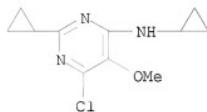


RN 617716-53-7 CAPLUS

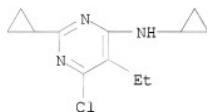
CN 4-Pyrimidinamine, 5,6-dichloro-N,2-dicyclopropyl- (CA INDEX NAME)



RN 617716-55-9 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-methoxy- (CA INDEX NAME)

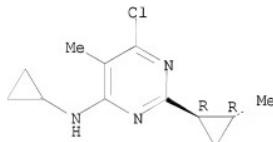


RN 617716-57-1 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopropyl-5-ethyl- (CA INDEX NAME)



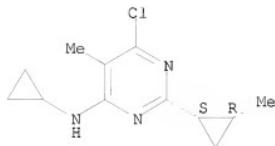
RN 617716-65-1 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N-cyclopropyl-5-methyl-2-[(1R,2R)-2-methylcyclopropyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

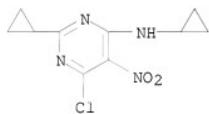


RN 617716-67-3 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N-cyclopropyl-5-methyl-2-[(1R,2S)-2-methylcyclopropyl]-, rel- (CA INDEX NAME)

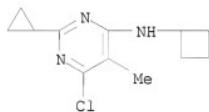
Relative stereochemistry.



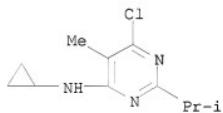
RN 617716-71-9 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N,2-dicyclopethyl-5-nitro- (CA INDEX NAME)



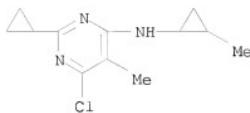
RN 617716-72-0 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N-cyclobutyl-2-cyclopropyl-5-methyl- (CA INDEX NAME)



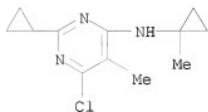
RN 617716-74-2 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N-cyclopropyl-5-methyl-2-(1-methylethyl)- (CA INDEX NAME)



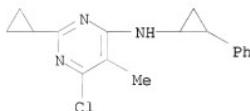
RN 617718-42-0 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-2-cyclopropyl-5-methyl-N-(2-methylcyclopropyl)- (CA INDEX NAME)



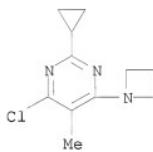
RN 617718-43-1 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-2-cyclopropyl-5-methyl-N-(1-methyliccyclopropyl)-  
 (CA INDEX NAME)



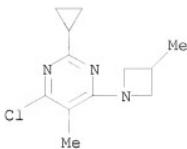
RN 617718-44-2 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-2-cyclopropyl-5-methyl-N-(2-phenylcyclopropyl)-  
 (CA INDEX NAME)



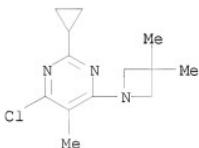
RN 617718-48-6 CAPLUS  
 CN Pyrimidine, 4-(1-azetidinyl)-6-chloro-2-cyclopropyl-5-methyl- (CA INDEX  
 NAME)



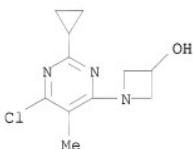
RN 617718-50-0 CAPLUS  
 CN Pyrimidine, 4-chloro-2-cyclopropyl-5-methyl-6-(3-methyl-1-azetidinyl)-  
 (CA INDEX NAME)



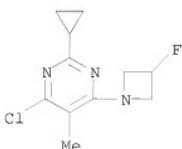
RN 617718-52-2 CAPLUS  
CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3,3-dimethyl-1-azetidinyl)-5-methyl-  
(CA INDEX NAME)



RN 617718-53-3 CAPLUS  
CN 3-Azetidinol, 1-(6-chloro-2-cyclopropyl-5-methyl-4-pyrimidinyl)- (CA  
INDEX NAME)

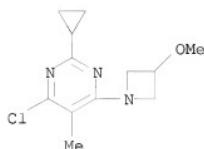


RN 617718-54-4 CAPLUS  
CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3-fluoro-1-azetidinyl)-5-methyl-  
(CA INDEX NAME)

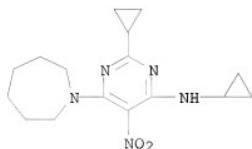


RN 617718-55-5 CAPLUS

CN Pyrimidine, 4-chloro-2-cyclopropyl-6-(3-methoxy-1-azetidinyl)-5-methyl-  
(CA INDEX NAME)

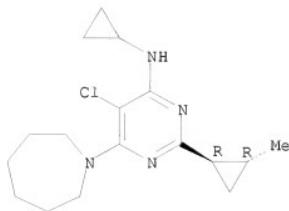


RN 617718-93-1 CAPLUS  
CN 4-Pyrimidinamine, N,2-dicyclopropyl-6-(hexahydro-1H-azepin-1-yl)-5-nitro-  
(CA INDEX NAME)

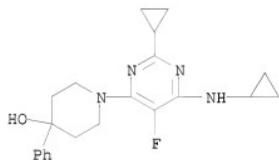


IT	617717-17-6P	617717-45-0P	617717-53-0P
	617717-67-6P	617717-69-8P	617717-71-2P
	617717-73-4P	617717-81-4P	617717-87-0P
	617717-89-2P	617717-97-2P	617717-99-4P
	617718-02-2P	617718-06-6P	617718-09-9P
	617718-11-3P	617718-19-1P	617718-33-9P
	617718-67-9P	617718-68-0P	
	RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of aminopyrimidines with muscarinic M3 antagonist and PDE IV inhibiting activity)		
RN	617717-17-6 CAPLUS		
CN	4-Pyrimidinamine, 5-chloro-N-cyclopropyl-6-(hexahydro-1H-azepin-1-yl)-2-[(1R,2R)-2-methylcyclopropyl]-, rel- (CA INDEX NAME)		

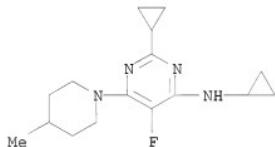
Relative stereochemistry.



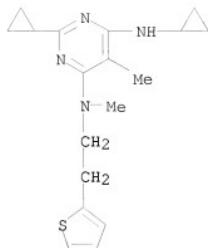
RN 617717-45-0 CAPLUS  
CN 4-Piperidinol, 1-[2-cyclopropyl-6-(cyclopropylamino)-5-fluoro-4-pyrimidinyl]-4-phenyl- (CA INDEX NAME)



RN 617717-53-0 CAPLUS  
CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(4-methyl-1-piperidinyl)- (CA INDEX NAME)



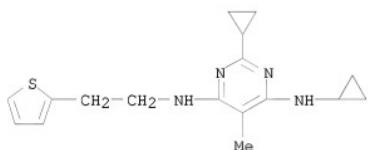
RN 617717-67-6 CAPLUS  
CN 4,6-Pyrimidinediamine, N6,2-dicyclopropyl-N4,5-dimethyl-N4-[2-(2-thienyl)ethyl]- (CA INDEX NAME)



RN 617717-69-8 CAPLUS  
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-[2-(2-thienyl)ethyl]-,  
 , (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

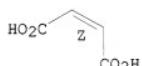
CRN 617717-68-7  
 CMF C17 H22 N4 S



CM 2

CRN 110-16-7  
 CMF C4 H4 O4

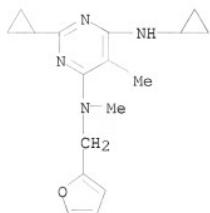
Double bond geometry as shown.



RN 617717-71-2 CAPLUS  
 CN 4,6-Pyrimidinediamine, N',2-dicyclopropyl-N-(2-furanylmethyl)-N,5-dimethyl-,  
 , (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

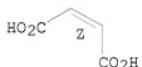
CRN 617717-70-1  
 CMF C17 H22 N4 O



CM 2

CRN 110-16-7  
 CMF C4 H4 O4

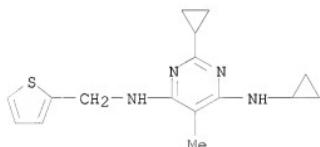
Double bond geometry as shown.



RN 617717-73-4 CAPLUS  
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-(2-thienylmethyl)-,  
 $(2Z)$ -2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

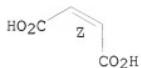
CRN 617717-72-3  
 CMF C16 H20 N4 S



CM 2

CRN 110-16-7  
 CMF C4 H4 O4

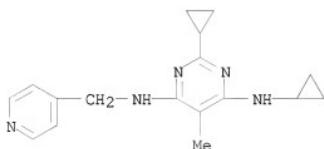
Double bond geometry as shown.



RN 617717-81-4 CAPLUS  
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-(4-pyridinyimethyl)-,  
 (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

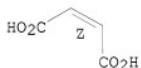
CRN 617717-80-3  
 CMF C17 H21 N5



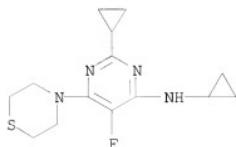
CM 2

CRN 110-16-7  
 CMF C4 H4 O4

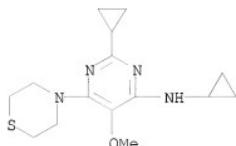
Double bond geometry as shown.



RN 617717-87-0 CAPLUS  
 CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-fluoro-6-(4-thiomorpholinyl)- (CA INDEX NAME)



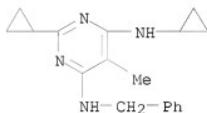
RN 617717-89-2 CAPLUS  
 CN 4-Pyrimidinamine, N,2-dicyclopropyl-5-methoxy-6-(4-thiomorpholinyl)- (CA INDEX NAME)



RN 617717-97-2 CAPLUS  
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-(phenylmethyl)-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

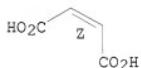
CRN 617717-96-1  
 CMF C18 H22 N4



CM 2

CRN 110-16-7  
 CMF C4 H4 O4

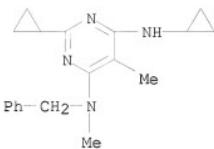
Double bond geometry as shown.



RN 617717-99-4 CAPLUS  
 CN 4,6-Pyrimidinediamine, N',2-dicyclopropyl-N,5-dimethyl-N-(phenylmethyl)-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

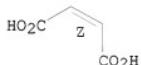
CRN 617717-98-3  
 CMF C19 H24 N4



CM 2

CRN 110-16-7  
CMF C4 H4 O4

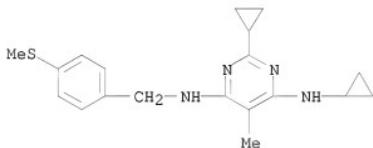
Double bond geometry as shown.



RN 617718-02-2 CAPLUS

CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-5-methyl-N'-(4-(methylthio)phenyl)methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

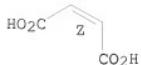
CM 1

CRN 617718-01-1  
CMF C19 H24 N4 S

CM 2

CRN 110-16-7  
CMF C4 H4 O4

Double bond geometry as shown.



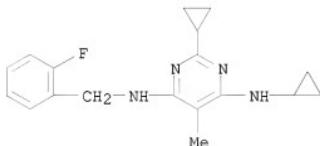
RN 617718-06-6 CAPLUS

CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-N'-(2-fluorophenyl)methyl)-5-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 617718-05-5

CMF C18 H21 F N4

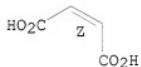


CM 2

CRN 110-16-7

CMF C4 H4 O4

Double bond geometry as shown.



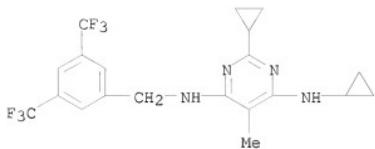
RN 617718-09-9 CAPLUS

CN 4,6-Pyrimidinediamine, N-[{3,5-bis(trifluoromethyl)phenyl}methyl]-N',2-dicyclopropyl-5-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 617718-08-8

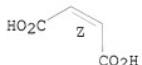
CMF C20 H20 F6 N4



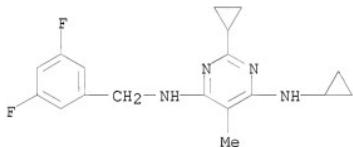
CM 2

CRN 110-16-7  
CMF C4 H4 O4

Double bond geometry as shown.

RN 617718-11-3 CAPLUS  
CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-N'-[{(3,5-difluorophenyl)methyl]-5-methyl-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

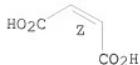
CM 1

CRN 617718-10-2  
CMF C18 H20 F2 N4

CM 2

CRN 110-16-7  
CMF C4 H4 O4

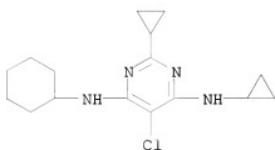
Double bond geometry as shown.



RN 617718-19-1 CAPLUS  
 CN 4,6-Pyrimidinediamine, 5-chloro-N-cyclohexyl-N',2-dicyclopropyl-,  
 (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

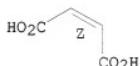
CRN 617718-18-0  
 CMF C16 H23 Cl N4



CM 2

CRN 110-16-7  
 CMF C4 H4 O4

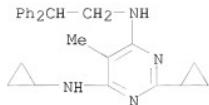
Double bond geometry as shown.



RN 617718-33-9 CAPLUS  
 CN 4,6-Pyrimidinediamine, N,2-dicyclopropyl-N'-(2,2-diphenylethyl)-5-methyl-,  
 (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

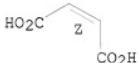
CRN 617718-32-8  
 CMF C25 H28 N4



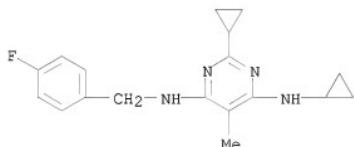
CM 2

CRN 110-16-7  
CMF C4 H4 O4

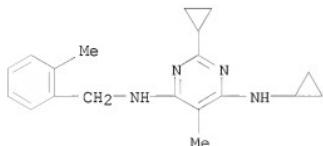
Double bond geometry as shown.



RN 617718-67-9 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-N6-[(4-fluorophenyl)methyl]-5-methyl- (CA INDEX NAME)



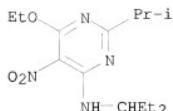
RN 617718-68-0 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4,2-dicyclopropyl-5-methyl-N6-[(2-methylphenyl)methyl]- (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/581,897 (amended)

L10 ANSWER 29 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2003:775798 CAPLUS  
 DN 140:192821  
 TI N,N'-dicyclopentyl-2-methylsulfanyl-5-nitro-pyrimidine-4,6-diamine  
 (GS39783) and structurally related compounds: Novel allosteric enhancers  
 of  $\gamma$ -aminobutyric acidB receptor function  
 AU Urwyler, Stephan; Pozza, Mario F.; Lingenhoechl, Kurt; Mosbacher, Johannes;  
 Lampert, Christina; Froestl, Wolfgang; Koller, Manuel; Kaupmann, Clemens  
 CS Novartis Institutes for BioMedical Research, Novartis Pharma AG, Basel,  
 Switz.  
 SO Journal of Pharmacology and Experimental Therapeutics (2003), 307(1),  
 322-330  
 CODEN: JPETAB; ISSN: 0022-3565  
 PB American Society for Pharmacology and Experimental Therapeutics  
 DT Journal  
 LA English  
 AB N,N'-Dicyclopentyl-2-methylsulfanyl-5-nitro-pyrimidine-4,6-diamine  
 (GS39783) and structurally related compds. are described as novel  
 allosteric enhancers of GABAB receptor function. They potentiate  
 GABA-stimulated guanosine 5'-O-(3-[35S]thio)-triphosphate  
 ([35S]GTP $\gamma$ S) binding to membranes from a GABAB(1b/2)-expressing  
 Chinese hamster ovary cell line at low micromolar concns., but do not  
 stimulate [35S]GTP $\gamma$ S binding by themselves. Similar effects of  
 GS39783 are seen on native GABAB receptors in rat brain membranes.  
 Concentration-response curves with GABA in the presence of different fixed  
 concns. of GS39783 reveal an increase of both the potency and maximal  
 efficacy of GABA at the GABAB(1b/2) heterodimer. In radioligand binding  
 expts., GS39783 reduces the kinetic rate consts. of the association and  
 dissociation of [<sup>3</sup>H]3-aminopropylphosphinic acid, resulting in a net increase  
 in affinity for the agonist radioligand. In equilibrium binding expts.  
 (displacement of the antagonist ligand [<sup>3</sup>H]CGP62349), GS39783 increases  
 agonist affinities. Agonist displacement curves are biphasic, probably  
 reflecting the G protein-coupled and uncoupled states of the receptor.  
 The proportion of the high-affinity component is increased by GS39783,  
 suggesting that the G protein coupling of the receptor is also promoted by  
 the pos. modulator. We also show that GS39783 has modulatory effects in  
 cellular assays such as GABAB receptor-mediated activation of inwardly  
 rectifying potassium channels in Xenopus oocytes and Ca<sup>2+</sup> signaling in  
 human embryonic kidney 293 cells. In a more physiol. context, GS39783 is  
 shown to suppress paired pulse inhibition in rat hippocampal slices. This  
 effect is reversed by the competitive GABAB receptor antagonist CGP55845A  
 and is produced most likely by enhancing the effect of synaptically  
 released GABA at presynaptic GABAB receptors.  
 IT 58289-04-6, CGA 44010  
 RL: PAC (Pharmacological activity); BIOL (Biological study)  
 (GS39783 and structurally related compds. as novel allosteric enhancers  
 of GABABB receptor function)  
 RN 58289-04-6 CAPLUS  
 CN 4-Pyrimidinamine, 6-ethoxy-N-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro-  
 (CA INDEX NAME)



OSC.G 71 THERE ARE 71 CAPLUS RECORDS THAT CITE THIS RECORD (72 CITINGS)  
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 30 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2003:532650 CAPLUS  
 DN 139:85375  
 TI Preparation of novel alkanesulfonamides as endothelin antagonists  
 IN Boilli, Martin; Boss, Christoph; Clozel, Martine; Fischli, Walter; Weller,  
 Thomas  
 PA Actelion Pharmaceuticals Ltd., Switz.

SO PCT Int. Appl., 70 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003055863	A1	20030710	WO 2002-EP13970	20021210
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2471220	A1	20030710	CA 2002-2471220	20021210
	AU 2002361033	A1	20030715	AU 2002-361033	20021210
	AU 2002361033	B2	20081120		
	EP 1465875	A1	20041013	EP 2002-795133	20021210
	EP 1465875	B1	20071219		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	BR 2002015424	A	20041214	BR 2002-15424	20021210
	HU 2005000082	A2	20050428	HU 2005-82	20021210
	CN 1612864	A	20050504	CN 2002-826644	20021210
	CN 100537546	C	20090909		
	JP 2005513155	T	20050512	JP 2003-556394	20021210
	NZ 533693	A	20070223	NZ 2002-533693	20021210
	AT 381545	T	20080115	AT 2002-795133	20021210
	ES 2297040	T3	20080501	ES 2002-795133	20021210
	TW 2484346	B	20060201	TW 2002-91137487	20021226
	ZA 2004004927	A	20050926	ZA 2004-4927	20040622
	US 20050085639	A1	20050421	US 2004-500485	20040629
	US 7323465	B2	20080129		
	MX 2004006457	A	20041004	MX 2004-6457	20040630
	NO 2004003215	A	20040729	NO 2004-3215	20040729
	NO 327220	B1	20090518		
PRAI	WO 2002-EP2	A	20020102		
	WO 2002-EP13970	W	20022120		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 139:85375

AB The invention relates to novel alkanesulfonamides of formula I [R1 = alkyl; R2 = aryl, heteroaryl, alkyl; R3 = aryl, heteroaryl; R4 = H, CF<sub>3</sub>, alkyl, alkylamino, alkoxy, alkylthio, aryl, heteroaryl, cycloalkyl, etc.; X = O, bond; Y = O, NH, NHSO<sub>2</sub>, NHSO<sub>2</sub>NH, OCONH, NHC<sub>2</sub>O, NHCONH; Z = O, S, NH; n = 2-4]. The invention also concerns related aspects including processes for the preparation of the compds., pharmaceutical compns. containing one

or more of those compds. and especially their use as endothelin receptor antagonists in the treatment and prevention of diseases associated to the endothelin system. Thus, II was prepared from di-Et 2-(*p*-tolyl)malonate, ethane sulfonamide potassium salt and 2-chloro-5-bromopyrimidine. In competition binding studies, the IC<sub>50</sub> value of II against ETA receptor was 3.96 nM and >1000 against ETB.

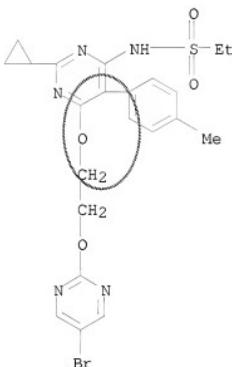
IT 556796-97-5P 556796-98-6P 556796-99-7P  
 556797-00-3P 556797-12-7P 556797-13-8P  
 556797-14-9P 556797-15-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrimidine alkanesulfonamides as endothelin antagonists)

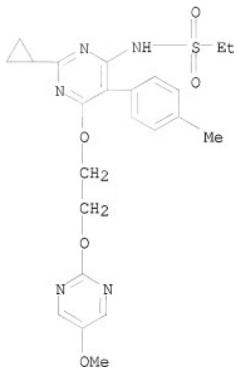
RN 556796-97-5 CAPLUS

CN Ethanesulfonamide, N-[6-{2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy}-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)

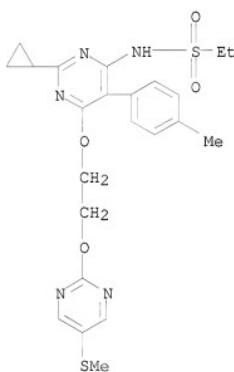


RN 556796-98-6 CAPLUS

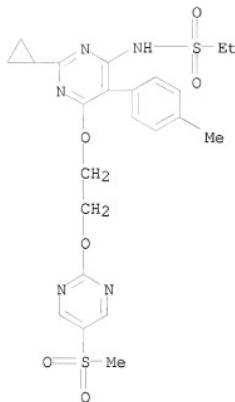
CN Ethanesulfonamide, N-[2-cyclopropyl-6-{2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy}-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)



RN 556796-99-7 CAPLUS  
CN Ethanesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[(5-(methylothio)-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)

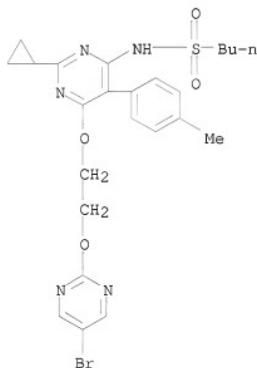


RN 556797-00-3 CAPLUS  
CN Ethanesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[(5-(methylsulfonyl)-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)



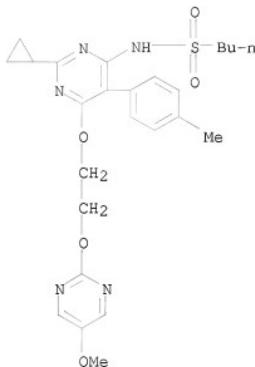
RN 556797-12-7 CAPLUS

CN 1-Butanesulfonamide, N-[6-{2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy}-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)

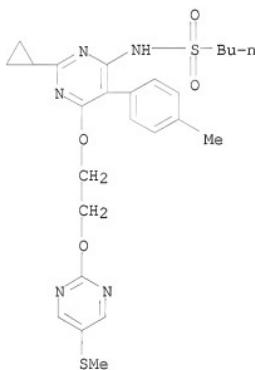


RN 556797-13-8 CAPLUS

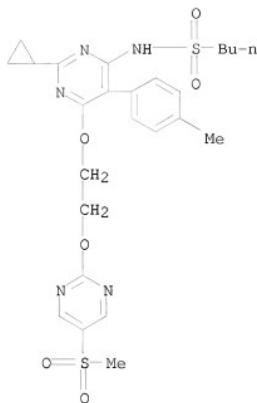
CN 1-Butanesulfonamide, N-[2-cyclopropyl-6-{2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy}-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)



RN 556797-14-9 CAPLUS  
CN 1-Butanesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[(5-(methylthio)-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)

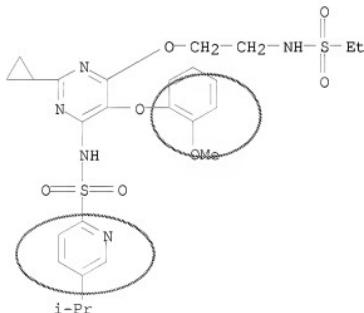


RN 556797-15-0 CAPLUS  
CN 1-Butanesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[(5-(methylsulfonyl)-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]- (CA INDEX NAME)



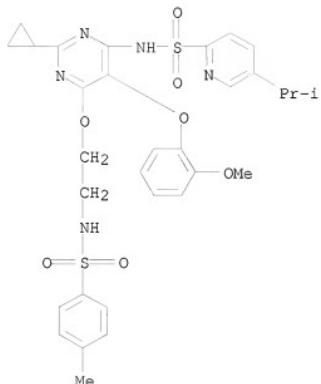
OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)  
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 31 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2003:162650 CAPLUS  
 DN 139:78410  
 TI Bis-sulfonamides as endothelin receptor antagonists  
 AU Boss, Christoph; Bollli, Martin H.; Weller, Thomas; Fischli, Walter;  
 Clozel, Martine  
 CS Drug Discovery Chemistry and Preclinical Research, Actelion  
 Pharmaceuticals Ltd, Allschwil/BL, CH-4123, Switz.  
 SO Bioorganic & Medicinal Chemistry Letters (2003), 13(5), 951-954  
 CODEN: BMCL8; ISSN: 0960-894X  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 OS CASREACT 139:78410  
 AB Modification of the structure of bosentan 1, the first marketed endothelin receptor antagonist (Tracleer), by introduction of a second sulfonamide function at the alkoxy side chain, led to bis-sulfonamides 2. This allowed to prepare dual ETA/ETB as well as ETB receptor selective antagonists, which could serve as tools to investigate the pharmacological consequences of selective ETB receptor blockade.  
 IT 329924-34-7P 329924-36-9P 329924-43-8P  
 329924-54-1P 329925-16-8P 329925-17-9P  
 329925-20-4P 329925-27-1P 329925-28-2P  
 329925-29-3P 329925-30-6P 556066-64-9P  
 556066-65-0P 556066-66-1P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (bis-sulfonamides as endothelin receptor antagonists)  
 RN 329924-34-7 CAPLUS  
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 329924-36-9 CAPLUS  
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(4-methylphenyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA

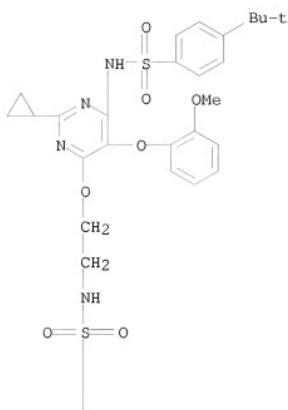
INDEX NAME)



RN 329924-43-8 CAPLUS

CN Benzenesulfonamide, N-[2-[(2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl]-4-methyl- (CA INDEX NAME)

PAGE 1-A

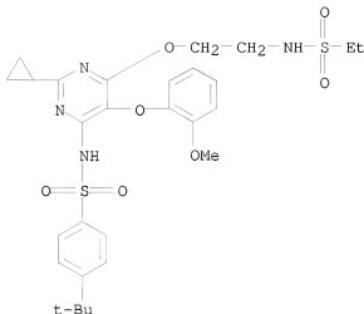


PAGE 2-A



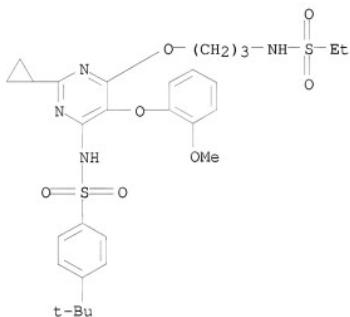
RN 329924-54-1 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



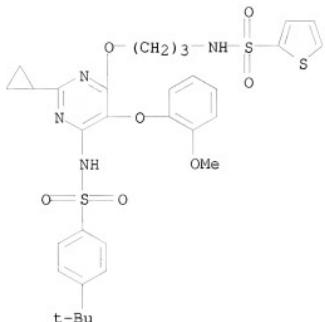
RN 329925-16-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-{3-[(ethylsulfonyl)aminopropoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl}-4-(1,1-dimethylethyl)- (CA INDEX NAME)



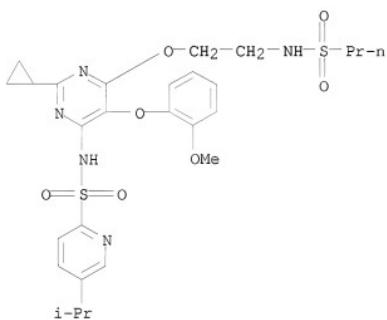
RN 329925-17-9 CAPLUS

CN 2-Thiophenesulfonamide, N-[3-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]propyl- (CA INDEX NAME)



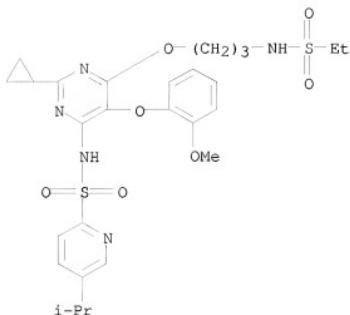
RN 329925-20-4 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



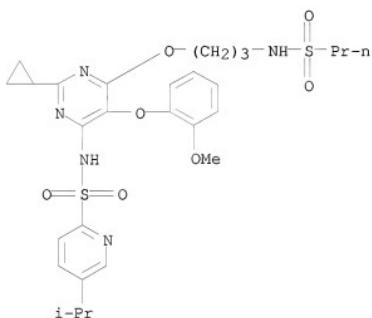
RN 329925-27-1 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



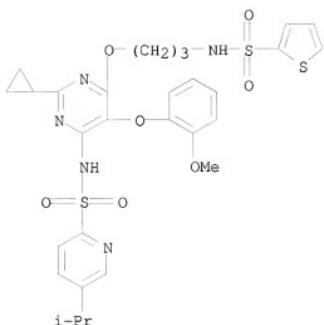
RN 329925-28-2 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(propylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



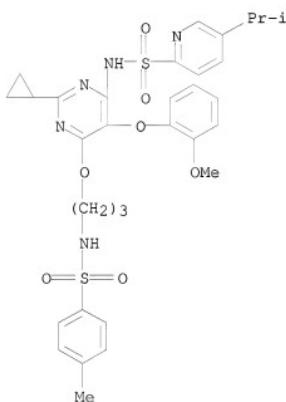
RN 329925-29-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(2-thienylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



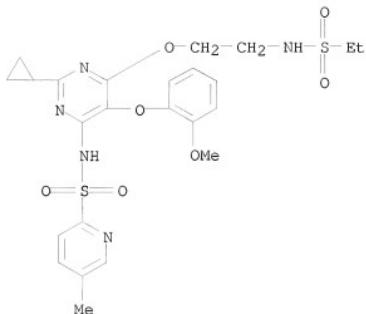
RN 329925-30-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{[[(4-methylphenyl)sulfonyl]amino]propoxy}-4-pyrimidinyl]-5-(1-methylethyl)-(CA INDEX NAME)



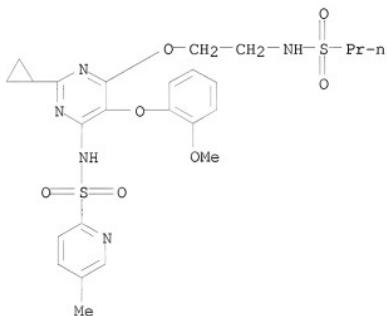
RN 556066-64-9 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)



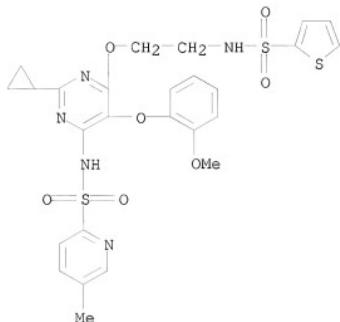
RN 556066-65-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{[(propylsulfonyl)amino]ethoxy}-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)

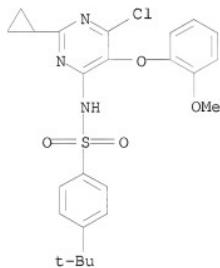


RN 556066-66-1 CAPLUS

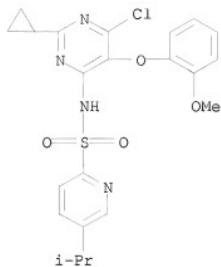
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{[(2-thienylsulfonyl)amino]ethoxy}-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)



- IT 150727-73-4P 329924-30-3P 329924-32-5P  
 329924-39-2P 329925-15-7P 329925-26-0P  
 556066-74-1P 556066-90-1P 556067-17-5P  
 RL RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (bis-sulfonamides as endothelin receptor antagonists)  
 RN 150727-73-4 CAPLUS  
 CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

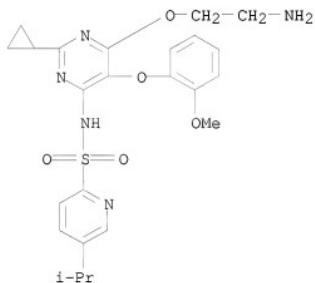


- RN 329924-30-3 CAPLUS  
 CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



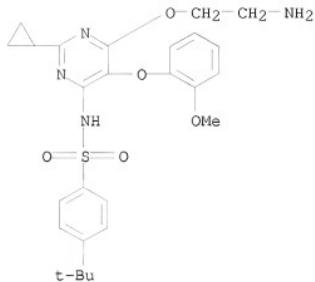
RN 329924-32-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



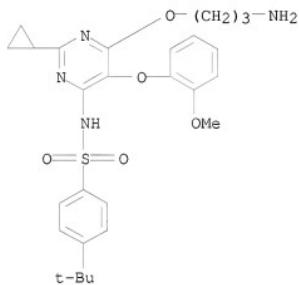
RN 329924-39-2 CAPLUS

CN Benzenesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



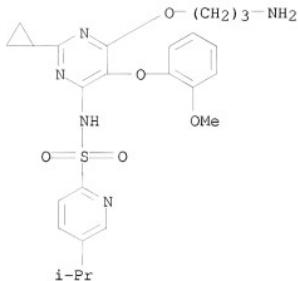
RN 329925-15-7 CAPLUS

CN Benzenesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

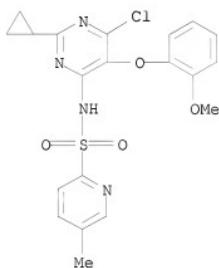


RN 329925-26-0 CAPLUS

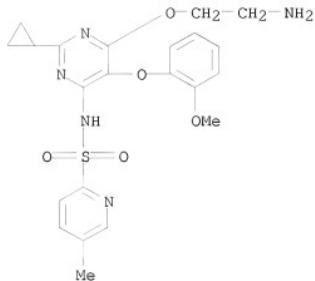
CN 2-Pyridinesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



RN 556066-74-1 CAPLUS  
CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)

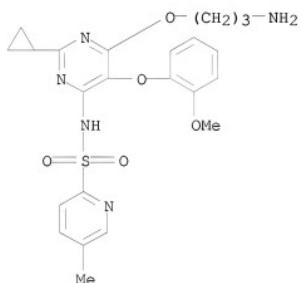


RN 556066-90-1 CAPLUS  
CN 2-Pyridinesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)



RN 556067-17-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-methyl- (CA INDEX NAME)



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)  
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 32 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2003:57831 CAPLUS  
 DN 138:122666  
 TI Preparation of aminotriazines as herbicides and plant growth regulators  
 IN Bojack, Guido; Willems, Lothar; Angermann, Alfred; Bieringer, Hermann;  
 Menne, Hubert; Auler, Thomas  
 PA Bayer CropScience GmbH, Germany  
 SO PCT Int. Appl., 127 pp.  
 CODEN: PIXXD2

DT Patent  
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003005824	A2	20030123	WO 2002-EP7411	20020704
	WO 2003005824	A3	20030501		
	W: AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, GD, GE, HR, HU, ID, IL, IN, IS, JE, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SG, SI, TJ, TM, TN, TT, UA, US, UZ, VN, YU, ZA RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10135043	A1	20030130	DE 2001-10135043	20010711
	AU 2002354529	A1	20030129	AU 2002-354529	20020704
	US 20030171218	A1	20030911	US 2002-191689	20020709
PRAI	DE 2001-10135043	A	20010711		
	WO 2002-EP7411	W	20020704		

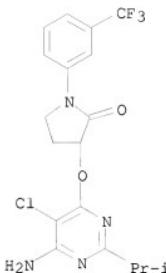
#### ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 138:122666  
 AB Title compds. I [A = (un)substituted aryl, heteroaryl, heterocycle, etc.;  
 B = direct bond, alkylene, alkenylene, etc.; W = O, S, H2 (sic); V = CH2,  
 S, O, etc.; R1, R2 = H, amino, alkyl, etc.; Q = O, S, SO, etc.; D =  
 (un)substituted aryl, heteroaryl] were prepared. For example, coupling of  
 hydroxypyrrrolin-2-one II and 4-chloro-6-(1-fluoro-1-methylethyl)-1, 3,  
 5-triazin-2-amine afforded aminotriazine III. Compds. I were said to show  
 very good pre- and postemergent herbicidal activity and very good crop  
 tolerance.

IT 1066420-67-4 1067195-20-3 1067197-62-9  
 1067197-69-6 1067198-77-9

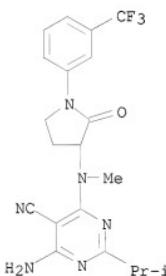
RL: PRPH (Prophetic)  
 (Preparation of aminotriazines as herbicides and plant growth  
 regulators)

RN 1066420-67-4 CAPLUS  
 CN 2-Pyrrolidinone, 3-[(6-amino-5-chloro-2-(1-methylethyl)-4-pyrimidinyl)oxy]-  
 1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



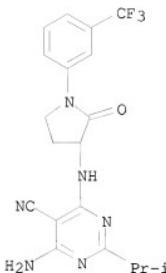
RN 1067195-20-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-amino-2-(1-methylethyl)-6-[methyl[2-oxo-1-[3-(trifluoromethyl)phenyl]-3-pyrrolidinyl]amino]- (CA INDEX NAME)



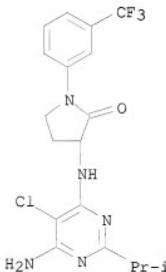
RN 1067197-62-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 4-amino-2-(1-methylethyl)-6-[[2-oxo-1-[3-(trifluoromethyl)phenyl]-3-pyrrolidinyl]amino]- (CA INDEX NAME)



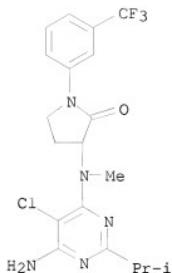
RN 1067197-69-6 CAPLUS

CN 2-Pyrrolidinone, 3-[(6-amino-5-chloro-2-(1-methylethyl)-4-pyrimidinyl)amino]-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



RN 1067198-77-9 CAPLUS

CN 2-Pyrrolidinone, 3-[(6-amino-5-chloro-2-(1-methylethyl)-4-pyrimidinyl)methylamino]-1-[3-(trifluoromethyl)phenyl]- (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 33 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2002:521730 CAPLUS  
 DN 137:93766  
 TI Preparation of novel pyrimidine-sulfamides as endothelin receptor antagonists  
 IN Boilli, Martin; Boss, Christoph; Fischli, Walter; Clozel, Martine; Weller, Thomas  
 PA Actelion Pharmaceuticals Ltd., Switz.  
 SO PCT Int. Appl., 143 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002053557	A1	20020711	WO 2001-EP14182	20011204
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BE, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA	2431675	A1	20020711	CA 2001-2431675	20011204
AU	2002227984	A1	20020716	AU 2002-227984	20011204
AU	2002227984	B2	20061207		
EP	1345920	A1	20030924	EP 2001-989570	20011204
EP	1345920	B1	20060412		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR	2001016237	A	20030930	BR 2001-16237	20011204
JP	2004517855	T	20040617	JP 2002-554676	20011204
JP	4245130	B2	20090325		
CN	1524079	A	20040825	CN 2001-820481	20011204
CN	100432070	C	20081112		
NZ	525614	A	20050324	NZ 2001-525614	20011204
AT	323079	T	20060415	AT 2001-989570	20011204
EP	1693372	A1	20060823	EP 2006-7371	20011204
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
PT	1345920	E	20060831	PT 2001-989570	20011204
ES	2260318	T3	20061101	ES 2001-989570	20011204
HU	2003001654	A2	20070328	HU 2003-1654	20011204
HU	2003001654	A3	20070828		
IL	155805	A	20090211	IL 2001-155805	20011204
TW	303245	B	20081121	TW 2001-90130769	20011212
ZA	2003003695	A	20040813	ZA 2003-3695	20030513
US	20040077670	A1	20040422	US 2003-433041	20030527
US	7094781	B2	20060822		
MX	2003004780	A	20040521	MX 2003-4780	20030529
NO	2003002699	A	20030613	NO 2003-2699	20030613
NO	324952	B1	20080114		
KR	819668	B1	20080404	KR 2003-708013	20030616
US	20060178365	A1	20060810	US 2006-400697	20060407
US	7285549	B2	20071023		

PRAI	WO 2000-EP12890	W	20001218
	EP 2001-989570	A3	20011204
	WO 2001-EP14182	W	20011204
	US 2003-433041	A1	20030527

OS MARPAT 137:93766

AB The title compds. [I; R<sub>1</sub> = aryl, arylalkyl, heteroaryl, etc.; or NR<sub>1</sub>R<sub>6</sub> = heterocyclyl; R<sub>2</sub> = Me, CH<sub>2</sub>(tetrahydrofuran-2-yl), etc.; R<sub>3</sub> = aryl, heteroaryl; R<sub>4</sub> = H, CF<sub>3</sub>, alkyl, etc.; R<sub>6</sub> = H, alkyl; X = O, S, CH<sub>2</sub>, a bond] were prepared Thus, treating 4-isopropylphenylsulfamic acid [6-chloro-5-(2-methoxyphenoxy)-2-(4-pyridyl)pyrimidin-4-yl]amide (5-step synthesis given) with NaH in MeOH and THF afforded I [R<sub>1</sub> = 4-(iso-Pr)C<sub>6</sub>H<sub>4</sub>; R<sub>2</sub> = Me; R<sub>3</sub> = 2-MeOC<sub>6</sub>H<sub>4</sub>; R<sub>4</sub> = 4-pyridyl; R<sub>6</sub> = H; X = O] which showed IC<sub>50</sub> of 721 nM and 8429 nM against ETA and ETB receptor binding, resp.

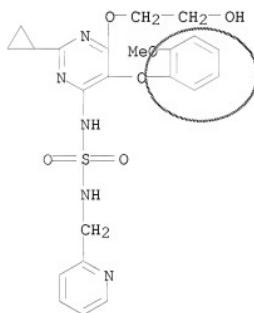
IT 441795-92-2P 441795-93-3P 441795-94-4P  
 441795-95-5P 441795-96-6P 441795-97-7P  
 441795-98-8P 441795-99-9P 441796-00-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrimidine-sulfamides as endothelin receptor antagonists)

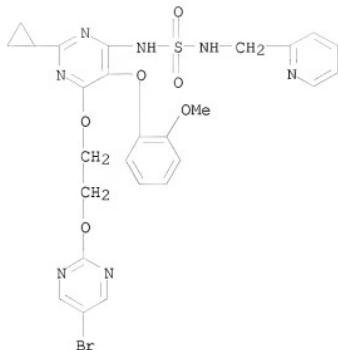
RN 441795-92-2 CAPLUS

CN Sulfamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-N'-(2-pyridinylmethyl)- (CA INDEX NAME)

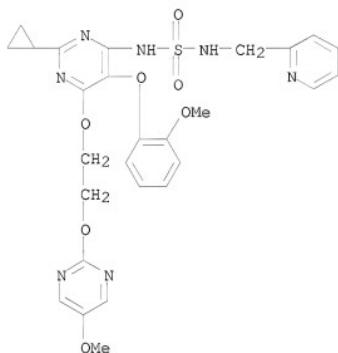


RN 441795-93-3 CAPLUS

CN Sulfamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxylethoxy]-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-N'-(2-pyridinylmethyl)- (CA INDEX NAME)

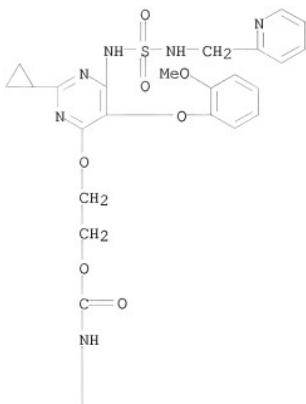


RN 441795-94-4 CAPLUS  
 CN Sulfamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(5-methoxy-2-pyrimidinyl)oxyl]ethoxy]-4-pyrimidinyl]-N'-(2-pyridinylmethyl)- (CA INDEX NAME)



RN 441795-95-5 CAPLUS  
 CN Carbamic acid, 2-pyridinyl-, 2-[[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[(2-pyridinylmethyl)amino]sulfonyl]amino]-4-pyrimidinyl]oxyethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

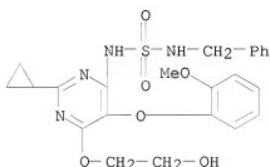


PAGE 2-A



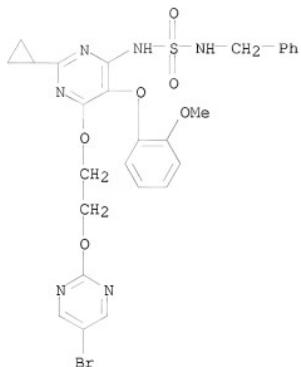
RN 441795-96-6 CAPLUS

CN Sulfamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-N'-(phenylmethyl)- (CA INDEX NAME)



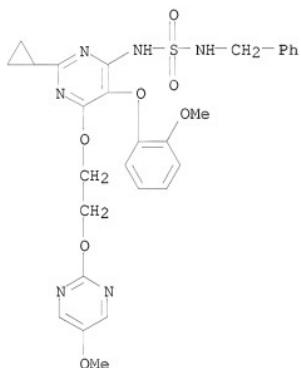
RN 441795-97-7 CAPLUS

CN Sulfamide, N-[6-(2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-N'-(phenylmethyl)- (CA INDEX NAME)



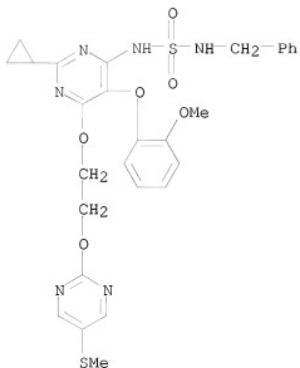
RN 441795-98-8 CAPLUS

CN Sulfamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy}-4-pyrimidinyl]-N'-(phenylmethyl)- (CA INDEX NAME)

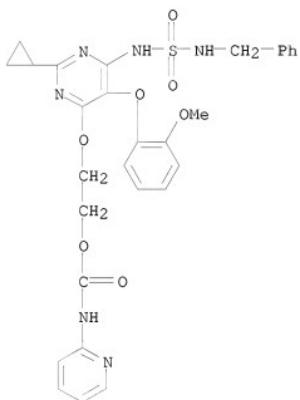


RN 441795-99-9 CAPLUS

CN Sulfamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-{2-[(5-(methylthio)-2-pyrimidinyl)oxy]ethoxy}-4-pyrimidinyl]-N'-(phenylmethyl)- (CA INDEX NAME)

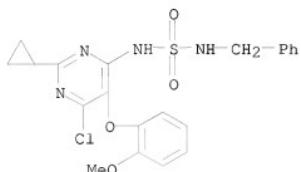


RN 441796-00-5 CAPLUS  
CN Carbanic acid, 2-pyridinyl-, 2-[(2-cyclopropyl-5-(2-methoxyphenoxy)-6-  
[[[(phenylmethyl)amino]sulfonyl]amino]-4-pyrimidinyl]oxy]ethyl ester (9CI)  
(CA INDEX NAME)

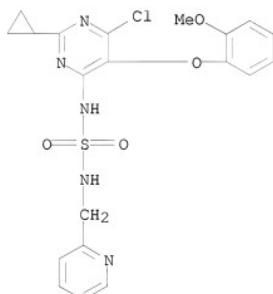


IT 441797-53-1P 441797-54-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of pyrimidine-sulfamides as endothelin receptor antagonists)

RN 441797-53-1 CAPLUS  
 CN Sulfamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-  
 N'-(phenylimethyl)- (CA INDEX NAME)



RN 441797-54-2 CAPLUS  
 CN Sulfamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-  
 N'-(2-pyridinylmethyl)- (CA INDEX NAME)



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)  
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 34 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2002:90020 CAPLUS  
 DN 136:151171  
 TI Preparation of arylethenesulfonic acid pyrimidinylamides as endothelin receptor antagonists.  
 IN Boss, Christoph; Bolli, Martin; Clozel, Martine; Fischli, Walter; Weller, Thomas  
 PA Actelion Pharmaceuticals Ltd., Switz.  
 SO PCT Int. Appl., 105 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002008200	A2	20020131	WO 2001-EP7922	20010710
WO 2002008200	A3	20020510		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2416785	A1	20020131	CA 2001-2416785	20010710
CA 2416785	C	20091110		
EP 1309564	A2	20030514	EP 2001-960485	20010710
EP 1309564	B1	20060614		
R: AI, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001012614	A	20030610	BR 2001-12614	20010710
HU 2003000965	A2	20031028	HU 2003-965	20010710
HU 2003000965	A3	20040128		
JP 2004504385	T	20040212	JP 2002-514106	20010710
NZ 523304	A	20050225	NZ 2001-523304	20010710
AU 2001281970	B2	20060316	AU 2001-281970	20010710
AT 329908	T	20060715	AT 2001-960485	20010710
ES 22662233	T3	20070301	ES 2001-960485	20010710
IL 153471	A	20070920	IL 2001-153471	20010710
TW 289553	B	20071111	TW 2001-90117915	20010723
US 20030220359	A1	20031127	US 2003-332247	20030103
US 6951856	B2	20051004		
ZA 2003000137	A	20040406	ZA 2003-137	20030106
KR 826332	B1	20080502	KR 2003-700256	20030108
MX 2003000430	A	20030624	MX 2003-430	20030115
NO 2003000274	A	20030120	NO 2003-274	20030120
NO 324771	B1	20071210		
PRAI WO 2000-EP7006	W	20000721		
WO 2001-EP7922	W	20010710		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 136:151171

AB Title compds. [I; R<sub>1</sub>, R<sub>2</sub> = aryl, heteroaryl; R<sub>3</sub> = (substituted) Ph, benzofuryl, aryl, heteroaryl; R<sub>4</sub> = H, halo, CF<sub>3</sub>, alkyl, alkylamino, alkoxy, alkylsulfonyl, alkylsulfinyl, alkylthio, alkylthioalkyl, hydroxyalkyl, alkoxyalkyl, hydroxyalkyloxyalkyl, hydroxyalkylamino,

alkylaminoalkyl, amino, aryl, arylthio, aryloxy, aralkyloxy, aralkyl, arylsulfinyl, heteroaryl, heteroaryloxy, heteroarylalkyloxy, heteroarylalmino, heteroarylthio, heteroarylalkylthio, heteroarylalkyl, heteroarylalkyloxy, heterocyclamino, heterocyclal, heterocyclalkyloxy, heterocyclxyloxy, heterocyclamino, heterocyclalkyloxy, heterocyclthio, heterocyclalkythio; heterocyclalkyl, heterocyclsulfinyl, cycloalkyl, cycloalkoxy, cycloalkylalkyloxy, etc.; R5, R6 = H, alkyl; X = O, S, NH, CH<sub>2</sub>, bond; Y = O, S, NH; Z = O, S, NH, bond; Q = (CH<sub>2</sub>)<sub>n</sub>, (CH<sub>2</sub>)<sub>m</sub>C.tpbond.C(CH<sub>2</sub>)<sub>p</sub>; n = 2-6; m = 1-3; p = 0-3], were prepared. Thus, NaH in THF was treated with 2-phenylethenesulfonic acid [6-(2-hydroxyethoxy)-5-p-tolylpyrimidin-4-yl]amide (preparation given); after 1 h stirring 5-bromo-2-chloropyrimidine was added and stirring continued for 21 h at 80° to give 2-phenylethenesulfonic acid [6-[2-(5-bromopyrimidin-2-yloxy)ethoxy]-5-p-tolylpyrimidin-4-yl]amide. The latter antagonized endothelin ETA receptors with IC<sub>50</sub> = 1.8 nM.

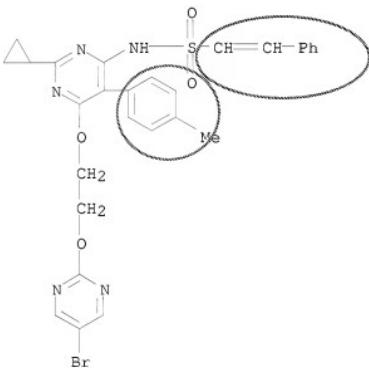
IT 394206-71-4P 394206-72-5P 394206-73-6P  
394206-74-7P 394206-75-8P 394206-76-9P  
394207-32-0P 394207-33-1P 394207-34-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylethenesulfonic acid pyrimidinylamides as endothelin receptor antagonists)

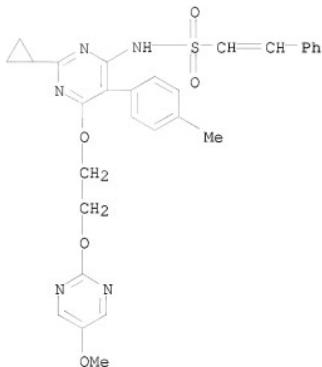
RN 394206-71-4 CAPLUS

CN Ethenesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)

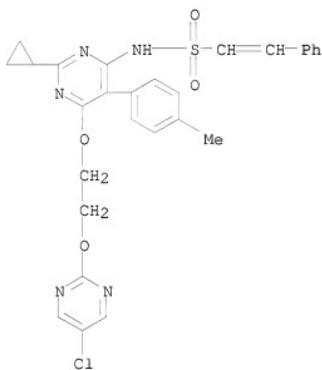


RN 394206-72-5 CAPLUS

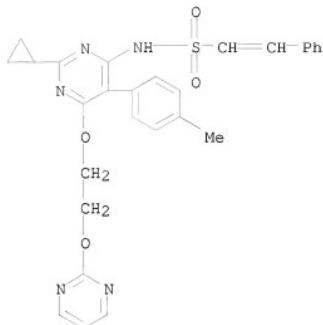
CN Ethenesulfonamide, N-[2-cyclopropyl-6-[2-[(5-methoxy-2-pyrimidinyl)oxy]ethoxy]-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



RN 394206-73-6 CAPLUS  
CN Ethenesulfonamide, N-[6-[2-[(5-chloro-2-pyrimidinyl)oxy]ethoxy]-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)

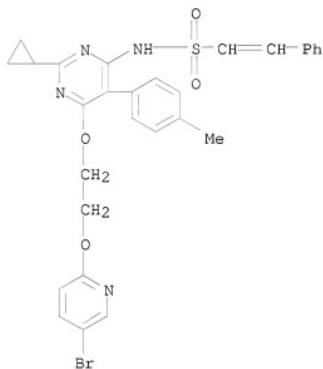


RN 394206-74-7 CAPLUS  
CN Ethenesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-(2-pyrimidinyl)ethoxy]-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



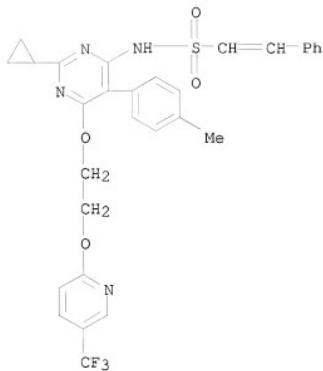
RN 394206-75-8 CAPLUS

CN Ethenesulfonamide, N-[6-[2-[(5-bromo-2-pyridinyl)oxy]ethoxy]-2-cyclopropyl-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



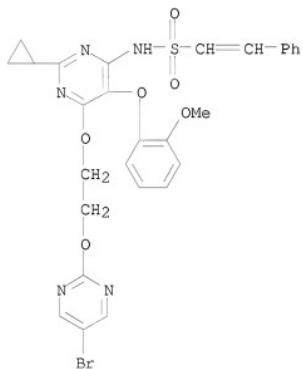
RN 394206-76-9 CAPLUS

CN Ethenesulfonamide, N-[2-cyclopropyl-5-(4-methylphenyl)-6-[2-[(5-(trifluoromethyl)-2-pyridinyl)oxy]ethoxy]-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



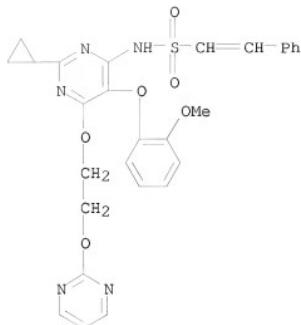
RN 394207-32-0 CAPLUS

CN Ethenesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxylethoxy]-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)

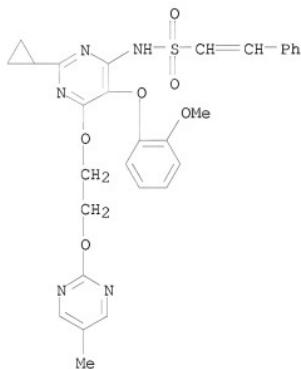


RN 394207-33-1 CAPLUS

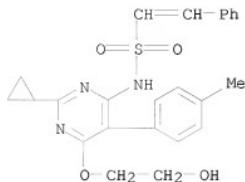
CN Ethenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-(2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



RN 394207-34-2 CAPLUS  
 CN Ethenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(5-methyl-2-pyrimidinyl)oxy]ethoxy]-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)

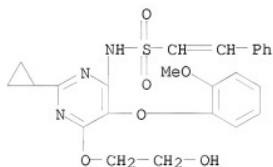


IT 394204-96-7P 394205-13-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of arylethenesulfonic acid pyrimidinylamides as endothelin receptor antagonists)  
 RN 394204-96-7 CAPLUS  
 CN Ethenesulfonamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(4-methylphenyl)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



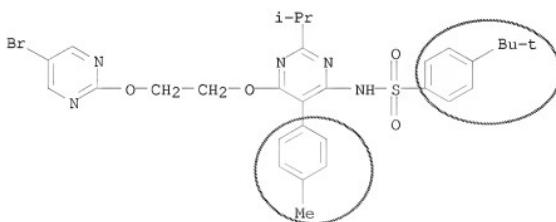
RN 394205-13-1 CAPLUS

CN Ethanesulfonamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 35 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2001:900083 CAPLUS  
 DN 136:325504  
 TI Modifications and structure-activity relationships at the 2-position of 4-sulfonamidopyrimidine derivatives as potent endothelin antagonists  
 AU Morimoto, Hiroshi; Shimadzu, Hideshi; Hosaka, Toshihiro; Kawase, Yasushi; Yasuda, Kosuke; Kikkawa, Kohei; Yamauchi-Kohno, Rikako; Yamada, Koichiro  
 CS Discovery Research Laboratory, Tanabe Seiyaku Co. Ltd., Saitama, Toda, 335-8505, Japan  
 SO Bioorganic & Medicinal Chemistry Letters (2001), Volume Date 2002, 12(1), 81-84  
 CODEN: BMCL8; ISSN: 0960-894X  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 OS CASREACT 136:325504  
 AB To improve water solubility and to study structure-activity relationships, we modified the structure of the pyrimidine nucleus of each of a series of potent ETA antagonists, I (Ar = p-tolyl, o-methoxyphenoxy), at the 2-position. In a previous study, each of these antagonists showed an extremely high affinity for the ETA receptor in porcine aortic membrane ( $IC_{50} < 0.001$  and  $0.0039$  nM, resp.). Two modification methods, one being the addition of organolithium followed by DDQ oxidation and the other being the nucleophilic substitution of 2-(methylsulfonyl)pyrimidine, were applied individually to synthesize 2-substituted 4-sulfonamidopyrimidine derivs. Introduction of aryl, heteroaryl, alkyl, amino, alkoxy, or alkylthio groups into the 2-position varied the affinity. Derivs. with hydrophilic groups at the 2-position showed higher water solubility but tended to reduce the affinity for the ETA receptor.  
 IT 169679-36-1P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (modifications and structure-activity relationships at 2-position of 4-sulfonamidopyrimidine derivs. as potent endothelin antagonists)  
 RN 169679-36-1 CAPLUS  
 CN Benzenesulfonamide, N-[6-[2-[(5-bromo-2-pyrimidinyl)oxylethoxy]-2-(1-methylethyl)-5-(4-methylphenyl)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/581,897 (amended)

L10 ANSWER 36 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2001:798218 CAPLUS  
 DN 135:331440  
 TI Preparation of substituted sulfonylaminopyrimidines as endothelin receptor antagonists  
 IN Boss, Christoph; Bolli, Martin; Clozel, Martine; Fischli, Walter; Weller, Thomas  
 PA Actelion Pharmaceuticals Ltd., Switz.  
 SO PCT Int. Appl., 124 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001081338	A1	20011101	WO 2001-EP4133	20010411
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRAI WO 2000-EP3692	W	20000425		

OS MARPAT 135:331440

AB The present invention relates to novel substituted pyrimidines I (e.g. rac-5-isopropyl-N-[5-(2-methoxyphenoxy)-2-(4-pyridyl)-6-(tetrahydrofuran-2-ylmethoxy)-4-pyrimidinyl]-2-pyridinesulfonamide) and pharmaceutically acceptable salts thereof and their use as active ingredients in the preparation of pharmaceutical compns. The invention also concerns related aspects including processes for the preparation of the compds., pharmaceutical compns. containing one or more I and especially their use as endothelin receptor antagonists. In I: R1 = aryl; aryl-lower alkyl; aryl-lower alkenyl; heteroaryl; heteroaryl-lower alkyl. R2 = H; halogen; trifluoromethyl; lower alkyl; lower alkylamino; lower alkyloxy; lower alkylsulfonyl; lower alkylsulfinyl; lower alkylthio; lower alkylthio-lower alkyl; hydroxy-lower alkyl; hydroxy-lower alkyloxy; lower alkyloxy-lower alkyl; hydroxy-lower alkyloxy-lower alkyloxy; hydroxy-lower alkyloxy-lower alkyl; hydroxy-lower alkyloxy-lower alkylamino; lower alkylamino-lower alkyl; amino; di-lower alkylamino; [N-(hydroxy-lower alkyl)-N-(lower alkyl)]amino; aryl; arylamino; aryl-lower alkylamino; arylthio; aryl-lower alkylthio; aryloxy. Also, R2 = aryl-lower alkyloxy; aryl-lower alkyl; arylsulfinyl; heteroaryl; heteroaryloxy; heteroaryl-lower alkyloxy; heteroarylamino; heteroaryl-lower alkylamino; heteroaryl-lower alkylthio; heteroaryl-lower alkyl; heteroarylsulfinyl; heterocycl; heterocycl-lower alkyloxy; heterocyclloxy; heterocyclamino; heterocycl-lower alkylthio; heterocycl-lower alkyl; heterocyclthio; heterocycl-lower alkylthio; heterocycl-lower alkylthio; heterocycl-lower alkylthio; cycloalkyl; cycloalkyloxy; cycloalkyl-lower alkylamino; cycloalkylthio; cycloalkyl-lower alkyl; cycloalkyl-lower alkylamino; cycloalkylsulfinyl; alkyloxycarbonyl; carboxy; cycloalkyl-lower alkylthio; cyano; aminocarbonyl. R3 = phenyl; mono, di- or trisubstituted Ph substituted with lower alkyl, lower alkenyl, lower alkyloxy, amino, lower alkylamino, amino-lower alkyl, trifluoromethyl, trifluoromethoxy, halogen, lower alkylthio, hydroxy, hydroxy-lower alkyl,

cyno, carboxy, alkoxy carbonyl, lower alkanoyl, formyl; benzofuranyl; aryl; heteroaryl. X = O; NH; CH<sub>2</sub> or a bond; R4 = N(CH<sub>2</sub>)<sub>2</sub>Z(CH<sub>2</sub>)<sub>2</sub> (Z = = O, imino, S, SO, or SO<sub>2</sub>) and substituted alkoxy as specified in the claims. Ninety-two example preps. are included, but the methods of preparation are not claimed. IC<sub>50</sub> (concentration of antagonist inhibiting 50% of the

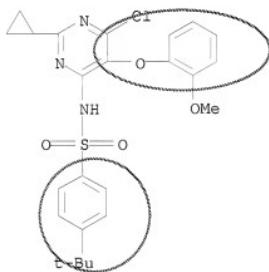
specific binding of ET-1) values were determined for some of the claimed compds. and were as low as 6 nM (rac-5-methylpyridine-2-sulfonic acid [5-(2-methoxyphenoxy)-6-(tetrahydrofuran-2-ylmethoxy)-2-[2-(5-thioxo-4,5-dihydro-[1,2,4]oxadiazol-3-yl]pyridin-4-yl]pyrimidin-4-yl]amide). Also, pA<sub>2</sub> (neg. value of logarithm of antagonist concentration that induces 2-fold shift in concentration of endothelin needed to get half-maximal contraction on isolated rat aortic rings or rat tracheal rings) are reported for 5 I.

IT 150727-73-4P, 4-tert-Butyl-N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]benzenesulfonamide 329924-30-3P,  
5-Isopropyl-N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-pyridinesulfonamide

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; preparation of substituted sulfonylaminopyrimidines as endothelin receptor antagonists)

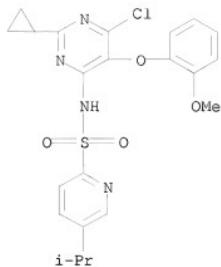
RN 150727-73-4 CAPLUS

CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)

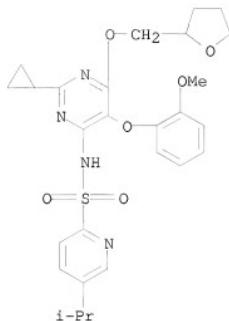


RN 329924-30-3 CAPLUS

CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)

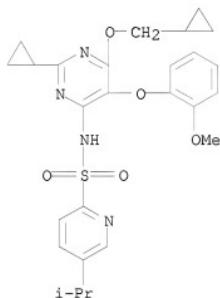


- IT 370105-27-4P, Rac-5-isopropyl-N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-(tetrahydrofuran-2-ylmethoxy)-4-pyrimidinyl]-2-pyridinesulfonamide 370105-28-5P,  
 5-Isopropyl-N-[2-cyclopropyl-6-cyclopropylmethoxy-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-pyridinesulfonamide 370105-29-6P,  
 Rac-5-isopropyl-N-[2-cyclopropyl-6-(1-cyclopropylethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-pyridinesulfonamide  
 370105-71-8P, Rac-4-tert-butyl-N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-(tetrahydrofuran-2-ylmethoxy)-4-pyrimidinyl]benzenesulfonamide 370105-72-9P,  
 4-tert-Butyl-N-[2-cyclopropyl-6-cyclopropylmethoxy-5-(2-methoxyphenoxy)-4-pyrimidinyl]benzenesulfonamide 370105-73-0P,  
 Rac-4-tert-butyl-N-[2-cyclopropyl-6-(1-cyclopropylethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]benzenesulfonamide  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPM (Synthetic preparation); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of substituted sulfonylaminopyrimidines as endothelin receptor antagonists)
- RN 370105-27-4 CAPLUS
- CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[(tetrahydro-2-furanyl)methoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



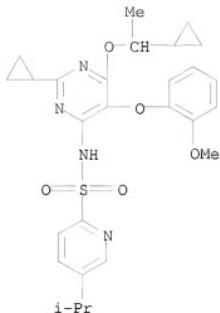
RN 370105-28-5 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-(cyclopropylmethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



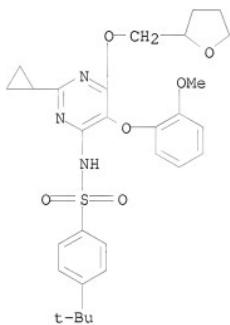
RN 370105-29-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-(1-cyclopropylethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



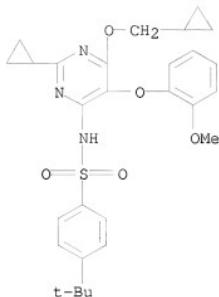
RN 370105-71-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[(tetrahydro-2-furanyl)methoxy]-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



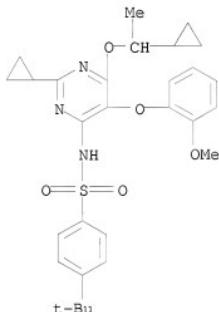
RN 370105-72-9 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-(cyclopropylmethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 370105-73-0 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-(1-cyclopropylethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)  
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 37 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2001:798215 CAPLUS  
 DN 135:344498  
 TI Preparation of N-(pyrimidin-4-yl) (hetero)arylsulfonamides having  
 endothelin-antagonist activity  
 IN Boilli, Martin; Boss, Christoph; Clozel, Martine; Fischli, Walter; Weller,  
 Thomas  
 PA Actelion Pharmaceuticals Ltd., Switz.  
 SO PCT Int. Appl., 96 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

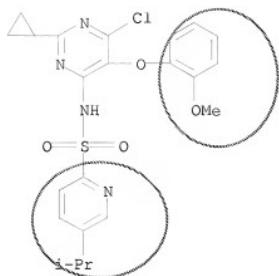
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001081335	A1	20011101	WO 2001-EP4136	20010411
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	WO 2000-EP3585	W	20000420		
OS	MARPAT 135:344498				

AB The title compds. [I; R1 = (hetero)aryl; R2 = (CH<sub>2</sub>)<sub>n</sub>CRa:CRbRc, (CH<sub>2</sub>)<sub>n</sub>C.tpbond.CRB; R3 = (un)substituted Ph, benzofuranyl, (hetero)aryl; R4 = H, halo, CF<sub>3</sub>, etc.; X = O, S, NH, CH<sub>2</sub>, a bond; Ra, Rc = H, alkyl; Rb = H, alkyl, aryl, etc.; n = 1-6], useful as endothelin receptor antagonists, were prepared. Thus, treatment of propargyl alc. with NaH in THF followed by addition of the pyrimidine II [R = Cl] (multi-step preparation given) afforded the title compound II [R = OCH<sub>2</sub>C.tpbond.CH] which showed IC<sub>50</sub> of 125 nM and of 823 nM against endothelin ETA and ETB binding to membranes from CHO cells, resp.

IT 329924-30-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of N-(pyrimidin-4-yl) (hetero)arylsulfonamides having  
 endothelin-antagonist activity)

RN 329924-30-3 CAPLUS

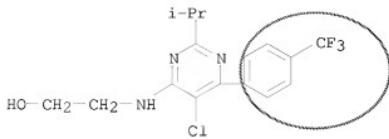
CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)-(CA INDEX NAME)



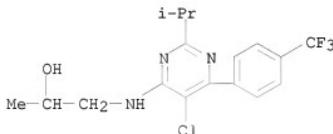
OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)  
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 38 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2001:371565 CAPLUS  
 DN 134:366893  
 TI Preparation of 5-halogeno-6-(4-trifluoromethylphenyl)-4-aminopyrimidines for prevention and treatment of immunogenic inflammation or rheumatic diseases  
 IN Murata, Akiya; Kondo, Masanori; Ohno, Kazunori; Tanaka, Masayasu; Ito, Masato  
 PA Dainippon Pharmaceutical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

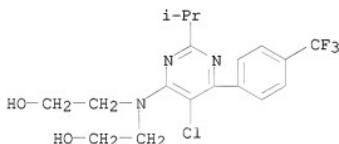
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001139561	A	20010522	JP 1999-326310	19991117
PRAI	JP 1999-326310			19991117	
OS	MARPAT 134:366893				
AB The title compds. [I; R1 = H, lower alkyl, mono- or dihydroxy-lower alkyl, mono- or dialkoxy-lower alkyl, amino-lower alkyl, mono- or di(lower alkyl)amino-lower alkyl, (un)substituted phenyl-lower alkyl; R2 = lower alkyl, mono- or dihydroxy-lower alkyl, mono or dialkoxy-lower alkyl, mono- or di(lower alkyl)-lower alkyl, (un)substituted phenyl-lower alkyl; or NR1R2 together represents (un)substituted substituted cyclic group optionally substituted with HO, lower alkoxy, lower alkyl, mono- or dihydroxy-lower alkyl, mono- or di(lower alkyl)-amino-lower alkyl, mono- or di(lower alkyl)-lower alkyl; R4 = lower alkyl, cycloalkyl] are prepared. These compds. exhibit excellent antirheumatic effect and are useful for the treatment or prevention of rheumatic diseases such as chronic articular rheumatism, Behcet's disease, and snyklosis spondylitis or autoimmunity inflammations such as multiple sclerosis, systemic lupus erythematosus, and Sjoegren's syndrome. Thus, a mixture of 4-chloro-2-isopropyl-6-(4-trifluoromethylphenyl)pyrimidine 1.0, 2-aminoethanol 0.37, and Et3N 0.4 g was heated at 130° under reflux for 3 h to give 1.0 g 2-(2-Isopropyl-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino)ethanol which (0.5 g) was chlorinated by N-chlorosuccinimide in 10 mL AcOEt at 90° for 3 h to give 0.9 g 2-(5-chloro-2-isopropyl-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino)ethanol (II). In a collagen-induced articular arthritis model (J. Exp. Med., 146, 857, 1977), II and 1-(5-chloro-2-isopropyl-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino)-2-propanol (III) were administered to mice at 10 mg/kg p.o. for 5 days in one week, which inhibited articular arthritis by 63.0 and 72.2%, resp. Tablet, capsule, and dispersant formulations containing III were also prepared.					
IT	340293-76-7P		340293-78-9P	340293-80-3P	
	340293-82-5P		340293-84-7P	340293-86-9P	
	340293-88-1P		340293-90-5P		
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of halo(trifluoromethylphenyl)aminopyrimidines for prevention and treatment of immunogenic inflammation)					
RN	340293-76-7	CAPLUS			
CN	Ethanol, 2-[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino-	(CA INDEX NAME)			



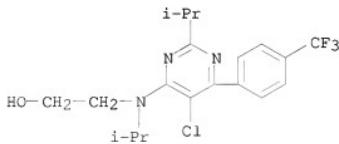
RN 340293-78-9 CAPLUS  
 CN 2-Propanol, 1-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]pyrimidinyl)amino]- (CA INDEX NAME)



RN 340293-80-3 CAPLUS  
 CN Ethanol, 2,2'-(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]pyrimidinyl)bis- (CA INDEX NAME)

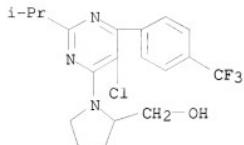


RN 340293-82-5 CAPLUS  
 CN Ethanol, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]pyrimidinyl)(1-methylethyl)amino]- (CA INDEX NAME)



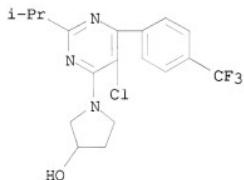
RN 340293-84-7 CAPLUS

CN 2-Pyrrolidinemethanol, 1-[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)



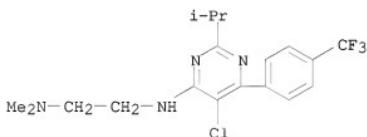
RN 340293-86-9 CAPLUS

CN 3-Pyrrolidinol, 1-[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]- (CA INDEX NAME)



RN 340293-88-1 CAPLUS

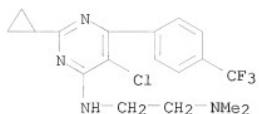
CN 1,2-Ethanediamine, N2-[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]-N1,N1-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

RN 340293-90-5 CAPLUS

CN 1,2-Ethanediamine, N2-[5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]-N1,N1-dimethyl-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

L10 ANSWER 39 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2001:369688 CAPLUS  
 DN 134:361359  
 TI [2-Alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino] acetamide derivatives for treatment of autoimmune diseases  
 IN Murata, Akiya; Ohno, Kazunori; Tanaka, Masayasu; Ito, Mari  
 PA Dainippon Pharmaceutical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

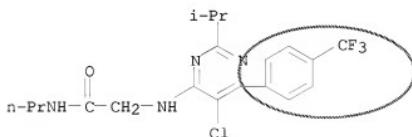
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001139472	A	20010522	JP 1999-326314	19991117
PRAI JP 1999-326314				
OS MARPAT 134:361359				

AB [2-Alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino] acetamide derivs. (I; A = Cl-6 alkyl, C3-8 cyclo alkyl; R1, R2 = H, C alkyl, C cyclo alkyl; X = halogen) and their pharmaceutically acceptable salts are claimed for treatment of autoimmune diseases, including rheumatoid, systemic lupus erythematosus, Sjogren's syndrome, etc. Formulation examples of I tablets, capsules, and powders were given.

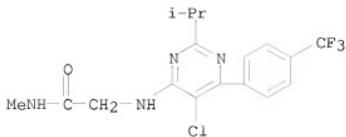
IT 251299-02-2P 251299-03-3P 251299-04-4P  
 251299-05-5P 251299-06-6P 251299-07-7P  
 251299-08-8P 251299-09-9P 251299-10-2P  
 251299-11-3P 251299-12-4P 251299-13-5P  
 251299-14-6P 251299-15-7P 251299-16-8P  
 251299-30-6P 251299-31-7P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 ([2-Alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino] acetamide derivs. for treatment of autoimmune diseases)

RN 251299-02-2 CAPLUS

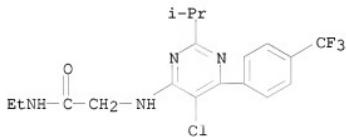
CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-propyl- (CA INDEX NAME)



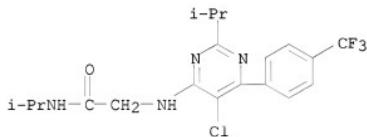
RN 251299-03-3 CAPLUS  
 CN Acetamide, 2-[[5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-methyl- (CA INDEX NAME)



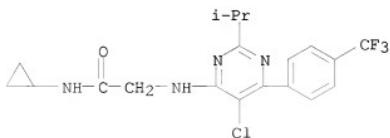
RN 251299-04-4 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-ethyl- (CA INDEX NAME)



RN 251299-05-5 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)

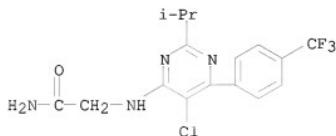


RN 251299-06-6 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl- (CA INDEX NAME)



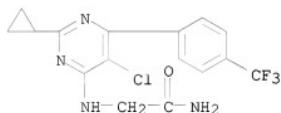
RN 251299-07-7 CAPLUS

CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino- (CA INDEX NAME)



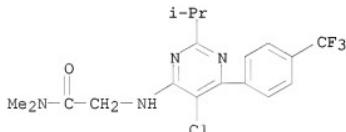
RN 251299-08-8 CAPLUS

CN Acetamide, 2-[(5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino- (CA INDEX NAME)



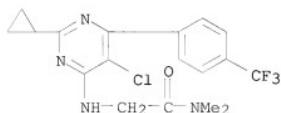
RN 251299-09-9 CAPLUS

CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino-N,N-dimethyl- (CA INDEX NAME)



RN 251299-10-2 CAPLUS

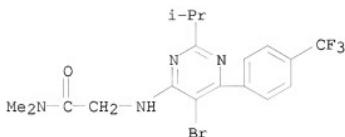
CN Acetamide, 2-[(5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino-N,N-dimethyl- (CA INDEX NAME)



RN 251299-11-3 CAPLUS

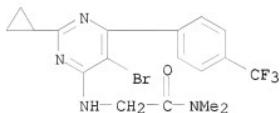
CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-

pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



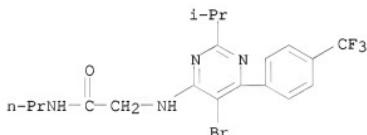
RN 251299-12-4 CAPLUS

CN Acetamide, 2-[(5-bromo-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



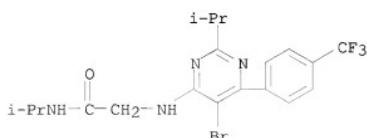
RN 251299-13-5 CAPLUS

CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-propyl- (CA INDEX NAME)



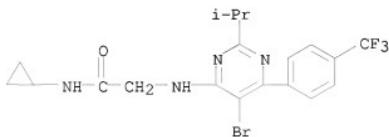
RN 251299-14-6 CAPLUS

CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



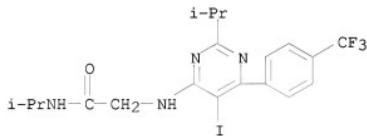
RN 251299-15-7 CAPLUS

CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl- (CA INDEX NAME)



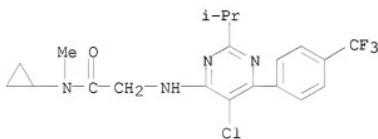
RN 251299-16-8 CAPLUS

CN Acetamide, 2-[(5-iodo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



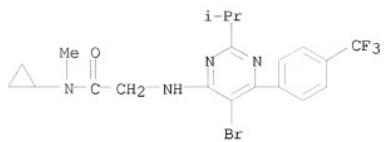
RN 251299-30-6 CAPLUS

CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl-N-methyl- (CA INDEX NAME)



RN 251299-31-7 CAPLUS

CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl-N-methyl- (CA INDEX NAME)



L10 ANSWER 40 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2001:185734 CAPLUS  
 DN 134:237487  
 TI Preparation of pyrimidine bis-sulfonamides as endothelin antagonists  
 IN Boilli, Martin; Boss, Christoph; Clozel, Martine; Fischli, Walter  
 PA Actelion Pharmaceuticals Ltd, Switz.  
 SO PCT Int. Appl., 92 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001017976	A1	20010315	WO 2000-EP7999	20000816
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2361402	A1	20010315	CA 2000-2361402	20000816
CA 2361402	C	20090512		
EP 1137642	A1	20011004	EP 2000-956456	20000816
EP 1137642	B1	20071205		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, CY, PT, SE				
HU 2002001402	A2	20020828	HU 2002-1402	20000816
HU 2002001402	A3	20031229		
NZ 512526	A	20040130	NZ 2000-512526	20000816
AU 775194	B2	20040722	AU 2000-68391	20000816
IL 143935	A	20050831	IL 2000-143935	20000816
AT 380180	T	20071215	AT 2000-956456	20000816
ES 2295048	T3	20080416	ES 2000-956456	20000816
CN 100424079	C	20081008	CN 2000-802515	20000816
ZA 200105130	A	20020923	ZA 2001-5130	20010621
NO 2001003586	A	20010720	NO 2001-3586	20010720
JP 2002138083	A	20020514	JP 2001-244254	20010810
US 6596719	B1	20030722	US 2001-31555	20010816
PRAI WO 1999-EP6485	A	19990903		
WO 2000-EP1222	A	20000215		
WO 2000-EP7999	W	20000816		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OS MARPAT 134:237487  
 AB 4-(Sulfonylamino)-6-(sulfonylaminoalkoxy)pyrimidine derivs. [I; R1  
 represents aryl, aryl-lower alkyl, aryl-lower alkenyl, heteroaryl,  
 heteroaryl-lower alkyl; R2 represents lower alkyl, trifluoromethyl, lower  
 alkoxy-lower alkyl, lower alkenyl, lower alkynyl, aryl, aryl-lower alkyl,  
 aryl-lower alkenyl, heterocyclic, heterocyclic-lower alkyl, heteroaryl,  
 etc.; R3 represents (un)substituted Ph, benzofuranyl, aryl, heteroaryl; R4  
 represents hydrogen, halogen, trifluoromethyl, lower alkyl, lower  
 alkylthio, lower alkylthio-lower alkyl, lower alkylsulfonyl, lower alkylsulfinyl, lower  
 alkylthio, lower alkylthio-lower alkyl, hydroxy-lower alkyl, lower  
 alkyloxy-lower alkyl, hydroxy-lower alkyloxy-lower alkyl, hydroxy-lower  
 alkylthio, lower alkylthio-lower alkyl, amino, etc.; R6 represents

hydrogen, lower alkyl, cycloalkyl, heterocyclyl, heteroaryl, aryl, cycloalkyl-lower alkyl, heterocyclyl-lower alkyl, heteroaryl-lower alkyl, aryl-lower alkyl, lower alkoxy-lower alkyl, lower alkylthio-lower alkyl, etc.; n represents the nos. 2,3,4 and 5; X represents oxygen, sulfur, NH, CH<sub>2</sub>, or a bond and pure diastereomers, mixts. of diastereomers, diastereomeric racemates, mixts. of diastereomeric racemates and the meso-forms and pharmaceutically acceptable salts thereof are prepared. Because of their ability to inhibit the endothelin binding, the described compds. can be used for treatment of diseases which are associated with an increase in vasoconstriction, proliferation or inflammation due to endothelin. Examples of such diseases are hypertension, coronary diseases, myocardial insufficiency, renal and myocardial ischemia, renal failure, cerebral ischemia, dementia, migraine, subarachnoidal hemorrhage, Raynaud's syndrome, portal hypertension and pulmonary hypertension. They can also be used for atherosclerosis, prevention of restenosis after balloon or stent angioplasty, inflammation, stomach and duodenal ulcer, cancer, prostatic hypertrophy, erectile dysfunction, hearing loss, amaurosis, chronic bronchitis, asthma, gram neg. septicemia, shock, sickle cell anemia, glomerulonephritis, renal colic, glaucoma, therapy and prophylaxis of diabetic complications, complications of vascular or cardiac surgery or after organ transplantation, complications of cyclosporin treatment, as well as other diseases presently known to be related to endothelin. Thus, 4-tert-butyl-N-[6-(3-aminopropoxy)-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]benzenesulfonamide was reacted with thiophene-2-sulfonyl chloride in dry dichloromethane and dry DMF in the presence of Hunig's base at room temperature for 12 h to give 4-tert-butyl-N-[6-(3-(thiophene-2-sulfonylamino)propoxy)-5-(o-methoxyphenoxy)-2-cyclopropyl-4-pyrimidinyl]benzenesulfonamide (II). II inhibited the binding of [<sup>125</sup>I]endothelin-1 to microsomal membranes from recombinant CHO cells expressing recombinant EtA or EtB receptor with IC<sub>50</sub> of 14.8 and 1.86 nM for EtA and EtB receptor, resp.

IT 150727-73-4P 329924-30-3P 329924-32-5P

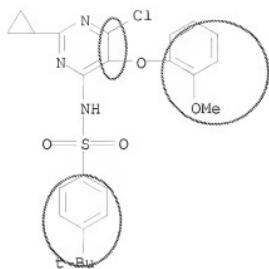
329924-39-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

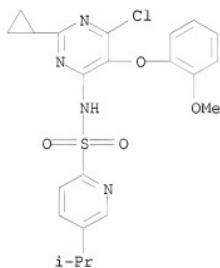
(intermediate; preparation of pyrimidine sulfonamides as endothelin antagonists for diseases related to endothelin)

RN 150727-73-4 CAPLUS

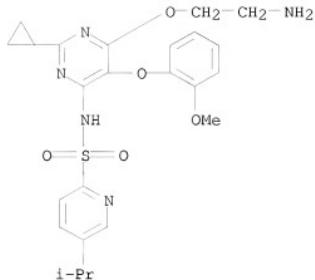
CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



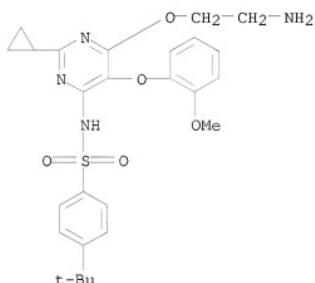
RN 329924-30-3 CAPLUS  
CN 2-Pyridinesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



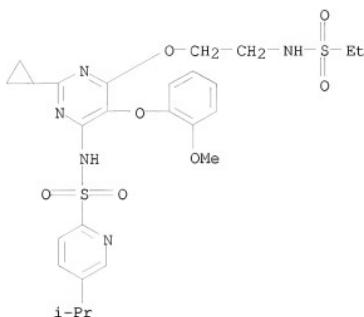
RN 329924-32-5 CAPLUS  
CN 2-Pyridinesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



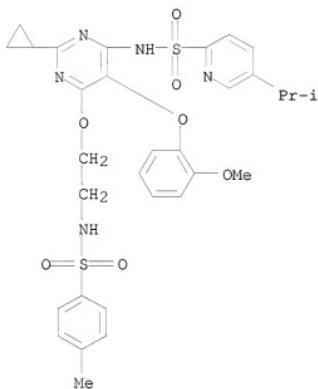
RN 329924-39-2 CAPLUS  
CN Benzenesulfonamide, N-[6-(2-aminoethoxy)-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



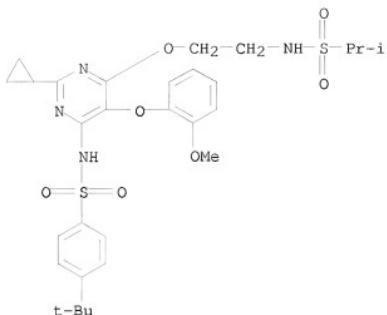
IT	329924-34-7P	329924-36-9P	329924-41-6P
	329924-43-8P	329924-54-1P	329925-16-8P
	329925-17-9P	329925-20-4P	329925-21-5P
	329925-22-6P	329925-27-1P	329925-28-2P
	329925-29-3P	329925-30-6P	
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyrimidine sulfonamides as endothelin antagonists for diseases related to endothelin)		
RN	329924-34-7 CAPLUS		
CN	2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)		



RN 329924-36-9 CAPLUS  
 CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(4-methylphenyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)-(CA INDEX NAME)



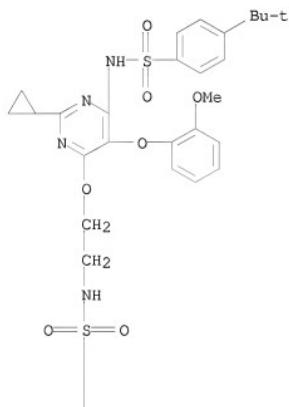
RN 329924-41-6 CAPLUS  
 CN Benzenesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(1-methylethyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-4-(1,1-dimethylethyl)-(CA INDEX NAME)



RN 329924-43-8 CAPLUS

CN Benzenesulfonamide, N-[2-[(2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino)-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl]-4-methyl- (CA INDEX NAME)

PAGE 1-A

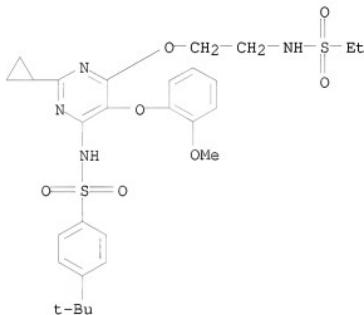


PAGE 2-A



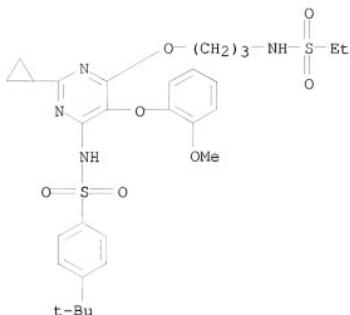
RN 329924-54-1 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[2-[(ethylsulfonyl)amino]ethoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



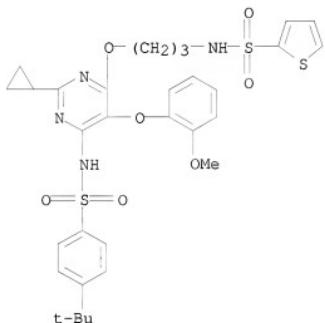
RN 329925-16-8 CAPLUS

CN Benzenesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



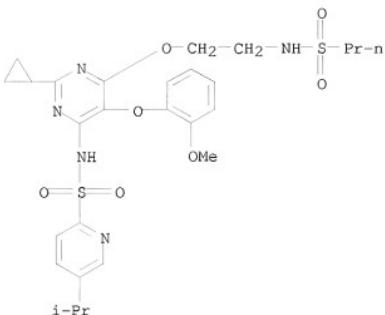
RN 329925-17-9 CAPLUS

CN 2-Thiophenesulfonamide, N-[3-[(2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino)-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]propyl]- (CA INDEX NAME)



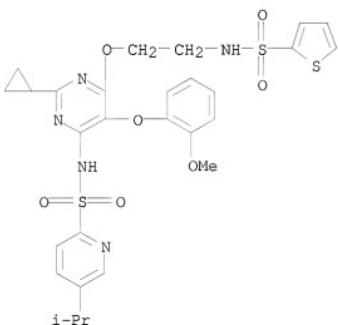
RN 329925-20-4 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(propylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



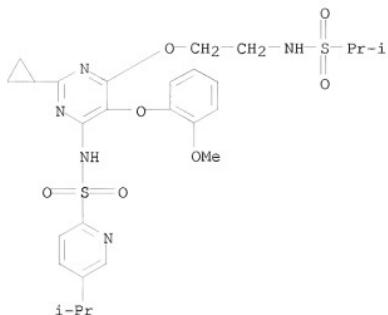
BN 329925-21-5 CAPLUS

AN 52925-21-3 CAS 600-  
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(2-thienylsulfonyl)amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX  
NAME)



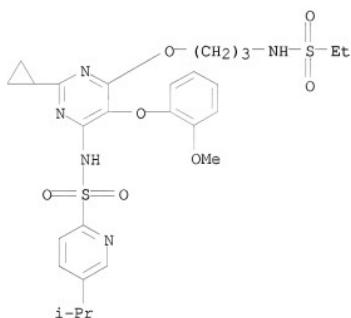
RN 329925-22-6 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[2-[(1-methylethyl)sulfonyl]amino]ethoxy]-4-pyrimidinyl]-5-(1-methylethyl)-(CA INDEX NAME)



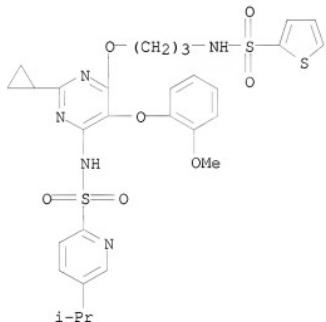
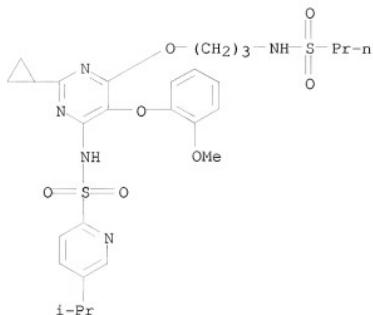
RN 329925-27-1 CAPLUS

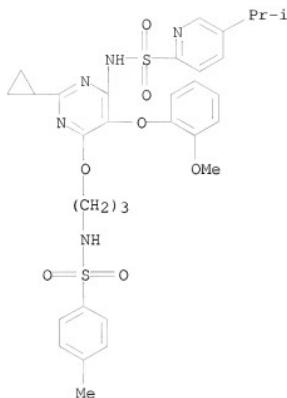
CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-6-[3-[(ethylsulfonyl)amino]propoxy]-5-(2-methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



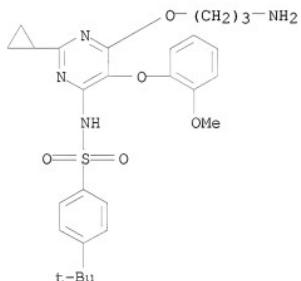
RN 329925-28-2 CAPLUS

CN 2-Pyridinesulfonamide, N-[2-cyclopropyl-5-(2-methoxyphenoxy)-6-[3-[(propylsulfonyl)amino]propoxy]-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)

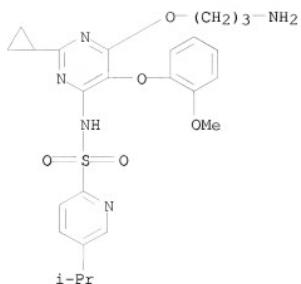




- IT 329925-15-7 329925-26-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactant; preparation of pyrimidine sulfonamides as endothelin antagonists  
 for diseases related to endothelin)  
 RN 329925-15-7 CAPLUS  
 CN Benzenesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-  
 methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



- RN 329925-26-0 CAPLUS  
 CN 2-Pyridinesulfonamide, N-[6-(3-aminopropoxy)-2-cyclopropyl-5-(2-  
 methoxyphenoxy)-4-pyrimidinyl]-5-(1-methylethyl)- (CA INDEX NAME)



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)  
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 41 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1999:753220 CAPLUS  
 DN 132:12321  
 TI Preparation of [2-alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino]acetamide derivatives for treatment and prevention of immune inflammatory diseases

IN Murata, Teruya; Ohno, Kazunori; Tanaka, Masayasu; Itoh, Mari  
 PA Dainippon Pharmaceutical Co., Ltd., Japan  
 SO PCT Int. Appl., 34 pp.  
 CODEN: PIXXD2

DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9959980	A1	19991125	WO 1999-JP2415	19990511
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	JP 2002241369	A	20020828	JP 1998-153776	19980518
	AU 9936299	A	19991206	AU 1999-36299	19990511

PRAI JP 1998-153776 A 19980518  
 WO 1999-JP2415 W 19990511

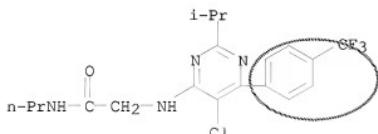
OS MARPAT 132:12321

AB Claimed are [2-Alkyl-5-halogeno-6-(4-trifluoromethylphenyl)-4-pyrimidinylamino]acetamide derivs. represented by formula (I; A = Cl-6-alkyl, C3-8 cycloalkyl; R1, R2 = H, Cl-6-alkyl, C3-8 cycloalkyl; X = halo) or pharmacoL acceptable salts thereof; a process for producing the derivs.; a medicinal composition containing any of the derivs. as the active ingredient; and intermediates for the derivs. The compds. have an excellent antirheumatic activity and are lowly toxic. They are hence useful as remedial and prophylactic agents for rheumatic diseases such as rheumatoid arthritis, Behcet's disease, and ankylosing spondylitis and immune inflammatory diseases such as multiple sclerosis, systemic lupus erythematosus, and autoimmune inflammatory diseases, e.g., Sjogren's syndrome. Thus, a mixture of 4-chloro-isopropyl-6-(4-(trifluoromethyl)phenyl)pyrimidine, 2-amino-N-propylacetamide, and Et3N was refluxed at 150° for 3 h to give I (R1 = H, R2 = n-Pr, X = Cl, A = i-Pr) (II). II and I (R1 = R2 = Me, X = Cl, A = i-Pr) in vivo inhibited type II collagen-induced arthritis in mice by 90 and 100%, resp., at 10 mg/kg and 43 and 83%, resp., at 3 mg/kg. Pharmaceutical formulations containing I were described.

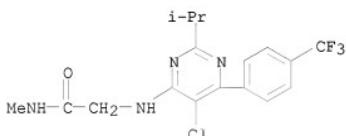
IT	251299-02-2P	251299-03-3P	251299-04-4P
	251299-05-5P	251299-06-6P	251299-07-7P
	251299-08-8P	251299-09-9P	251299-10-2P
	251299-11-3P	251299-12-4P	251299-13-5P
	251299-14-6P	251299-15-7P	251299-16-8P
	251299-30-6P	251299-31-7P	

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (Preparation of [alkylhalo(trifluoromethylphenyl)pyrimidinylamino]acetamide

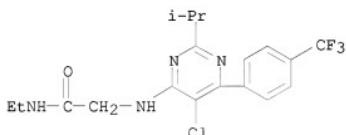
derivs. for treatment and prevention of immune inflammatory diseases)  
 RN 251299-02-2 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-propyl- (CA INDEX NAME)



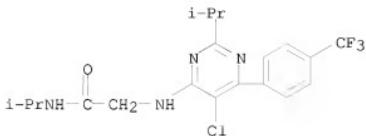
RN 251299-03-3 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino)-N-methyl- (CA INDEX NAME)



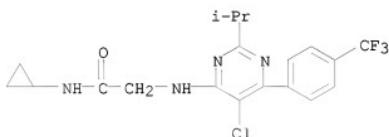
RN 251299-04-4 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino)-N-ethyl- (CA INDEX NAME)



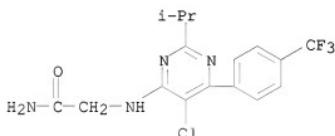
RN 251299-05-5 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino)-N-(1-methylethyl)- (CA INDEX NAME)



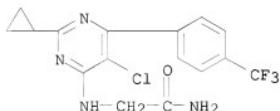
RN 251299-06-6 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino-N-cyclopropyl- (CA INDEX NAME)



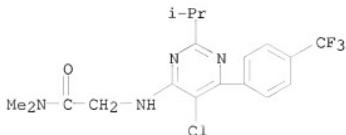
RN 251299-07-7 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino- (CA INDEX NAME)



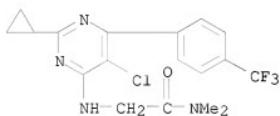
RN 251299-08-8 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino- (CA INDEX NAME)



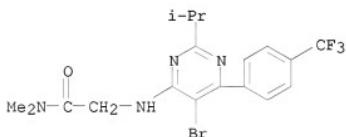
RN 251299-09-9 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino-N,N-dimethyl- (CA INDEX NAME)



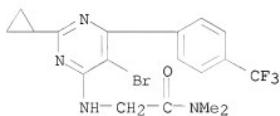
RN 251299-10-2 CAPLUS  
 CN Acetamide, 2-[(5-chloro-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



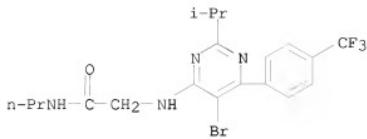
RN 251299-11-3 CAPLUS  
 CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



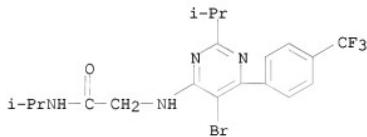
RN 251299-12-4 CAPLUS  
 CN Acetamide, 2-[(5-bromo-2-cyclopropyl-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N,N-dimethyl- (CA INDEX NAME)



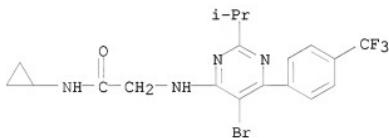
RN 251299-13-5 CAPLUS  
 CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-propyl- (CA INDEX NAME)



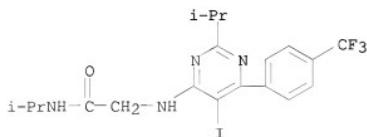
RN 251299-14-6 CAPLUS  
 CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



RN 251299-15-7 CAPLUS  
 CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl- (CA INDEX NAME)

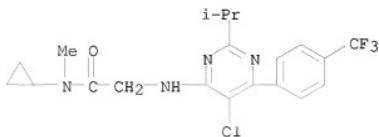


RN 251299-16-8 CAPLUS  
 CN Acetamide, 2-[(5-iodo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-(1-methylethyl)- (CA INDEX NAME)



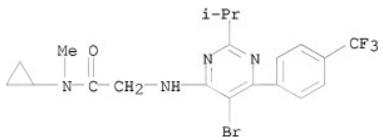
RN 251299-30-6 CAPLUS

CN Acetamide, 2-[(5-chloro-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl-N-methyl- (CA INDEX NAME)



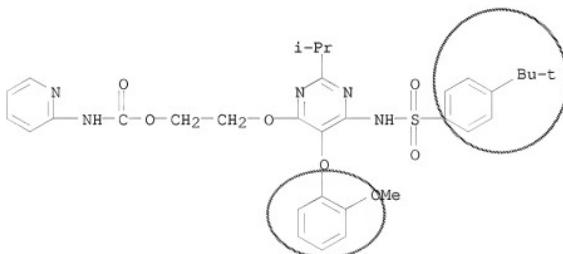
RN 251299-31-7 CAPLUS

CN Acetamide, 2-[(5-bromo-2-(1-methylethyl)-6-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]-N-cyclopropyl-N-methyl- (CA INDEX NAME)

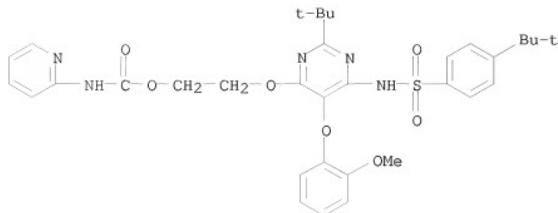


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 42 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1997:633849 CAPLUS  
 DN 127:307357  
 OREF 127:60113a,60116a  
 TI Discovery of RO 48-5695: a potent mixed endothelin receptor antagonist optimized from bosentan  
 AU Neidhart, Werner; Breu, Volker; Burri, Kaspar; Clozel, Martine; Hirth, Georges; Klinkhammer, Uwe; Giller, Thomas; Ramuz, Henri  
 CS Pharma Div., Preclinical Res., F. Hoffmann-La Roche Ltd., Basel, CH-4070, Switz.  
 SO Bioorganic & Medicinal Chemistry Letters (1997), 7(17), 2223-2228  
 CODEN: BMCLE8; ISSN: 0960-894X  
 PB Elsevier  
 DT Journal  
 LA English  
 AB Implementation of a pyridylcarbamoyl group and an isopropylpyridylsulfonamide substituent as key components in the scaffold of Bosentan resulted in the identification of the potent orally active endothelin receptor antagonist Ro 48-5695 (I). It shows affinities for ETA and ETB receptors in the low nanomolar range and high functional antagonistic potency in vitro.  
 IT 167402-12-2P 167402-14-4P 167402-15-5P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (synthesis of RO 48-5695, a potent mixed endothelin receptor antagonist optimized from bosentan)  
 RN 167402-12-2 CAPLUS  
 CN Carbamic acid, 2-pyridinyl-, 2-[(6-[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino)-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



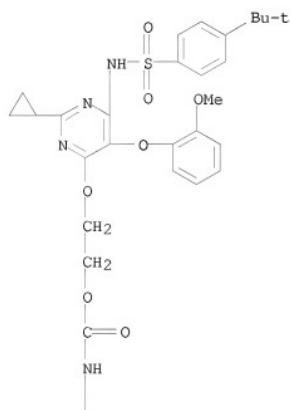
RN 167402-14-4 CAPLUS  
 CN Carbamic acid, 2-pyridinyl-, 2-[(2-(1,1-dimethylethyl)-6-[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino)-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



RN 167402-15-5 CAPLUS

CN Carbamic acid, 2-pyridinyl-, 2-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



OSC.G 22 THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (22 CITINGS)  
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 43 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1997:502979 CAPLUS

DN 127:121748

OREF 127:23489a

TI Preparation of pyrimidine moiety-containing arylethenesulfonamide derivatives as endothelin antagonists

IN Harada, Hironori; Kazami, Jun-ichi; Watanuki, Susumu; Tsuzuki, Ryuji; Sudou, Katsumi; Tanaka, Akihiro

PA Yamanouchi Pharmaceutical Co., Ltd., Japan

SO PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9722595	A1	19970626	WO 1996-JP3701	19961219
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2238723	A1	19970626	CA 1996-2238723	19961219
CA 2238723	C	20060613		
AU 9711710	A	19970714	AU 1997-11710	19961219
AU 703386	B2	19990325		
EP 882719	A1	19981209	EP 1996-942574	19961219
EP 882719	B1	20010516		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1204326	A	19990106	CN 1996-199036	19961219
CN 1102580	C	20030305		
BR 9612061	A	19990223	BR 1996-12061	19961219
JP 3087968	B2	20000918	JP 1997-522664	19961219
TW 414792	B	20001211	TW 1996-85115694	19961219
HU 2000000474	A2	20001228	HU 2000-474	19961219
HU 2000000474	A3	20010628		
AT 201202	T	20010615	AT 1996-942574	19961219
ES 2156305	T3	20010616	ES 1996-942574	19961219
RU 2172735	C2	20010827	RU 1998-114081	19961219
US 6083955	A	20000704	US 1998-91524	19980619
PRAI JP 1995-332111	A	19951220		
WO 1996-JP3701	W	19961219		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 127:121748

AB The title compds. I [Ar represents optionally substituted aryl or optionally substituted five- or six-membered heteroaryl; X represents oxygen, sulfur, or the group represented by NH; Y represents oxygen or sulfur; R1 represents hydrogen, lower alkyl optionally substituted with halogeno, cycloalkyl, optionally substituted aryl, or optionally substituted five- or six-membered heteroaryl; R2 represents lower alkyl, lower alkenyl, or lower alkynyl each optionally substituted with one to three groups selected among hydroxy, lower alkoxy, cycloalkyl, halogen, carboxy, and lower alkoxy carbonyl; R3 represents Ph optionally substituted with one to four groups selected among optionally halogenated lower alkyl, lower alkoxy, halogen, lower alkylthio, lower alkylsulfinyl, lower

alkanesulfonyl, carboxy lower alkoxy carbonyl, and carbamoyl; and R4 and R5 are the same or different and each represents hydrogen or low alkyl] are prepared. In an in vitro test for affinity for the ETA receptor, the title compds. in vitro showed IC<sub>50</sub> values of 1.5 to 9.7 nM.

IT 192645-30-0P

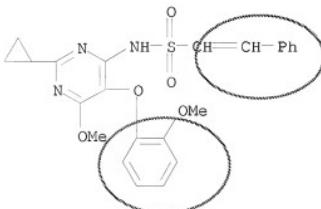
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of pyrimidine moiety-containing arylethenesulfonamide derivs.

as

endothelin antagonists)

RN 192645-30-0 CAPLUS

CN Ethenesulfonamide, N-[2-cyclopropyl-6-methoxy-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-phenyl-, potassium salt (1:1) (CA INDEX NAME)



● K

IT 192645-72-0P

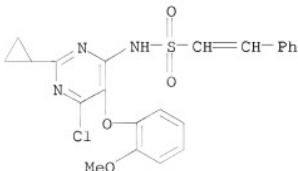
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of pyrimidine moiety-containing arylethenesulfonamide derivs.

as

endothelin antagonists)

RN 192645-72-0 CAPLUS

CN Ethenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-2-phenyl- (CA INDEX NAME)



OSC.G 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS)

10/581,897 (amended)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 44 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1997:257401 CAPLUS

DN 126:277488

OREF 126:537994,53802a

TI Preparation of pyrimidine derivatives as endothelin antagonists

IN Yamada, Koichiro; Yasuda, Kosuke; Yoshikawa, Kohei; Kono, Rikako

PA Tanabe Seiyaku Co, Japan

SO Jpn. Kokai Tokkyo Koho, 59 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09059160	A	19970304	JP 1996-151440	19960613
JP 3067131	B2	20000717		

PRAI JP 1995-149870 A 19950616

OS MARPAT 126:277488

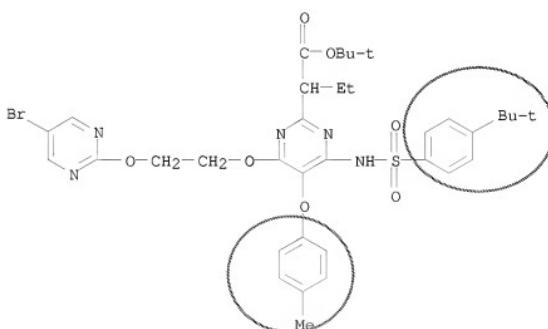
AB The title compds. I [ring A, B = (un)substituted benzene ring; Q = bond, etc.; Y = O, etc.; Alk = alkylene, etc.; Z = bond, O, etc.; R = aromatic heterocyclic ring, etc.; R1 = H, etc.] are prepared. The sodium salt of the title compound II at 1 mg/kg orally gave 68.6±3.8% inhibition of endothelin-induced blood pressure increase in rats.

IT 188305-94-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREF (Preparation); USES (Uses) (preparation of pyrimidine derivs. as endothelin antagonists)

RN 188305-94-4 CAPLUS

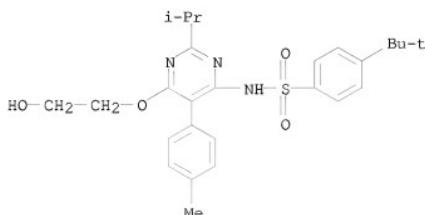
CN 2-Pyrimidineacetic acid, 4-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]- $\alpha$ -ethyl-5-(4-methylphenoxy)-, 1,1-dimethylethyl ester (CA INDEX NAME)



IT 169677-56-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrimidine derivs. as endothelin antagonists)  
RN 169677-56-9 CAPLUS  
CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-2-(1-methylethyl)-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)



L10 ANSWER 45 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1995:890091 CAPLUS  
 DN 123:286072  
 OREF 123:51270h,51271a  
 TI Preparation of (N-pyrimidinyl)benzenesulfonamide endothelin antagonists  
 IN Yamada, Koichiro; Yasuda, Kosuke; Kikkawa, Kohhei; Kohno, Rikako Touwacity  
 Co-op

PA Tanabe Seiyaku Co., Ltd., Japan  
 SO Eur. Pat. Appl., 74 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 658548	A1	19950621	EP 1994-119833	19941215
EP 658548	B1	19971119		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
IL 111959	A	20000716	IL 1994-111959	19941212
CA 2137953	A1	19950618	CA 1994-2137953	19941213
CA 2137953	C	20020326		
AU 9480461	A	19950622	AU 1994-80461	19941214
AU 676620	B2	19970313		
FI 9405900	A	19950618	FI 1994-5900	19941215
FI 115137	B1	20050315		
AT 160341	T	19971215	AT 1994-119833	19941215
ES 2111237	T3	19980301	ES 1994-119833	19941215
TW 430661	B	20010421	TW 1994-83111723	19941215
JP 0809961	A	19960416	JP 1994-312280	19941216
JP 2790065	B2	19980827		
US 5589478	A	19961231	US 1994-356958	19941216
CN 1111242	A	19951108	CN 1994-119413	19941217
CN 1051544	C	20000419		
US 5728706	A	19980317	US 1996-636981	19960424
PRAI JP 1993-318779	A	19931217		
JP 1994-140628	A	19940623		
JP 1994-183553	A	19940804		
US 1994-356958	A1	19941216		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 123:286072; MARPAT 123:286072

AB The title compd. [I; rings A and B are (un)substituted; A1 = lower alkylene, lower alkenylene; Q = single bond, O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>; R = (un)substituted aromatic heterocyclic, (un)substituted aryl; R1 = H, trifluoromethyl, (un)substituted alkyl, (un)substituted alkenyl, mono- or dialkylamino, (un)substituted alkylthio group, (un)substituted alkoxy, (un)substituted alkynyl, etc.; Z = O, S, NH; Y = single bond, O, NH] (e.g., II; m.p. 128-129.5°), having endothelin antagonist activity (no data), useful in the prophylaxis or treatment of various diseases caused by endothelin (no data), are prepared

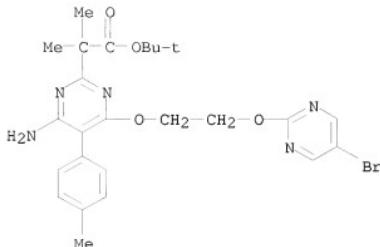
IT 848085-99-4

RL: RCT (Reactant); RACT (Reactant or reagent)

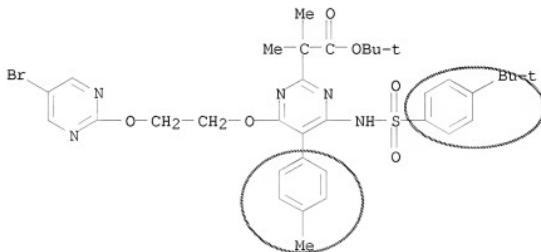
(preparation of (N-pyrimidinyl)benzenesulfonamide endothelin antagonists)

RN 848085-99-4 CAPLUS

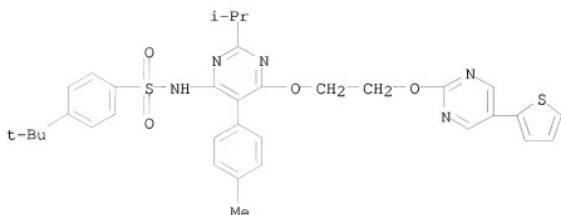
CN 2-Pyrimidineacetic acid, 4-amino-6-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-  
 α,α-dimethyl-5-(4-methylphenyl)-, 1,1-dimethylethyl ester (CA  
 INDEX NAME)



IT 169678-46-0P 169679-35-0P 169679-36-1P  
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of (N-pyrimidinyl)benzenesulfonamide endothelin antagonists)  
 RN 169678-46-0 CAPLUS  
 CN 2-Pyrimidineacetic acid, 4-[2-[(5-bromo-2-pyrimidinyl)oxy]ethoxy]-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]- $\alpha$ , $\alpha$ -dimethyl-5-(4-methylphenyl)-, 1,1-dimethylethyl ester (CA INDEX NAME)

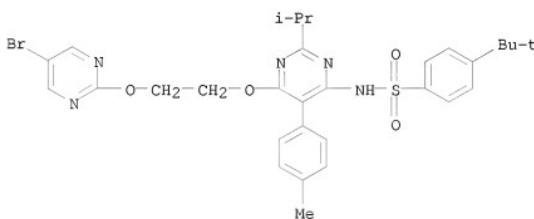


RN 169679-35-0 CAPLUS  
 CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-[2-(1-methylethyl)-5-(4-methylphenyl)-6-[(2-[(5-(2-thienyl)-2-pyrimidinyl)oxy]ethoxy)-4-pyrimidinyl]- (CA INDEX NAME)



RN 169679-36-1 CAPLUS

CN Benzenesulfonamide, N-[6-[2-[5-bromo-2-pyrimidinyl]oxy]ethoxy]-2-(1-methylethyl)-5-(4-methylphenyl)-4-pyrimidinyl-4-(1,1-dimethylethyl)- (CA INDEX NAME)

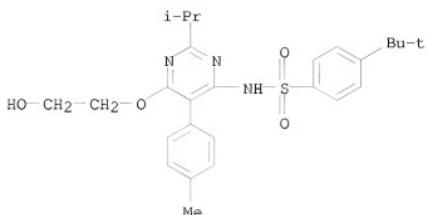


IT 169677-56-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of (N-pyrimidinyl)benzenesulfonamide endothelin antagonists from)

RN 169677-56-9 CAPLUS

CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-2-(1-methylethyl)-5-(4-methylphenyl)-4-pyrimidinyl]- (CA INDEX NAME)



OSC.G 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (25 CITINGS)

L10 ANSWER 46 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1995:780258 CAPLUS  
 DN 123:169647  
 OREF 123:30295a,30298a  
 TI Preparation of sulfonylaminopyrimidines as endothelin antagonists.  
 IN Breu, Volker; Burri, Kaspar; Cassal, Hean-Marie; Clozelle, Martine; Hirth,  
 Georges; Loeffler, Bernd-Michael; Mueller, Marcel; Neidhart, Werner;  
 Ramuz, Henri  
 PA F. Hoffmann-La Roche AG, Switz.  
 SO Eur. Pat. Appl., 46 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 633259	A1	19950111	EP 1994-109257	19940616
EP 633259	B1	19990113		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
TW 394761	B	20000621	TW 1994-83105221	19940608
CA 2125730	A1	19941229	CA 1994-2125730	19940613
CA 2125730	C	20051018		
AT 175669	T	19990115	AT 1994-109257	19940616
ES 2127850	T3	19990501	ES 1994-109257	19940616
ZA 9404434	A	19950103	ZA 1994-4434	19940621
IL 110089	A	20000831	IL 1994-110089	19940622
AU 9465948	A	19950105	AU 1994-65948	19940624
AU 678467	B2	19970529		
HU 67636	A2	19950428	HU 1994-1907	19940624
FI 9403084	A	19941229	FI 1994-3084	19940627
FI 112944	B1	20040213		
NO 9402428	A	19941229	NO 1994-2428	19940627
NO 306403	B1	19991101		
BR 9402558	A	19950328	BR 1994-2558	19940627
CN 1106007	A	19950802	CN 1994-106574	19940627
CN 1050839	C	20000329		
LT 3723	B	19960226	LT 1994-1979	19940627
LV 11175	B	19960620	LV 1994-131	19940627
US 5541186	A	19960730	US 1994-266072	19940627
PL 175771	B1	19990226	PL 1994-304007	19940627
PL 177031	B1	19990930	PL 1994-323036	19940627
RU 2142457	C1	19991210	RU 1994-22258	19940627
CZ 287184	B6	20001011	CZ 1994-1573	19940627
JP 07017972	A	19950120	JP 1994-146003	19940628
JP 2545200	B2	19961016		
RO 114325	B3	19990330	RO 1994-1112	19940628
SK 280736	B6	20000711	SK 1994-779	19940628
PRAI CH 1993-1924	A	19930628		
IL 1992-101650	A0	19920420		
CH 1994-1575	A	19940520		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 123:169647

AB Title compds. (I; R1-R3 = H, alkyl, alkoxy, alkylthio, alkenyl, halo, CF<sub>3</sub>, hydroxyalkoxy, haloalkoxy, alkanoylalkyl, hydroxyalkyl, CO<sub>2</sub>H, amino, etc.; R2R<sub>3</sub>, R5R<sub>6</sub>, R6R<sub>7</sub> = butadienyl, methylenedioxy, ethylenedioxyl, isopropylidenedioxyl; R4 = H, alkyl, cycloalkyl, CF<sub>3</sub>, alkoxy, alkynloxy, alkylthio, alkylthioalkyl, hydroxyalkyl, dihydroxyalkoxy, alkylsulfinyl,

alkylsulfonyl, aryl, arylthio, aryloxy, heterocyclyl, heterocyclalkyl, etc.; R5-R9 = H, halo, CF<sub>3</sub>, alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; Ra, Rb = H, alkyl, alkoxy, alkylthio; X = O, S, NH; Y = O<sub>2</sub>CNR10R11, HNOCR10R11, O<sub>2</sub>COR10, HNCO<sub>2</sub>R10; R10 = alkyl, cycloalkyl, hydroxylalkyl, carboxyalkyl, alkoxy carbonylalkyl, alkanoxyloxyalkyl, arylcarbamoylalkyl, heterocyclyl, heterocyclalkyl, etc.; R11 = H, R10; m = 1-3; n = 0,1), were prepared. Thus, 2-pyridinecarbonyl azide was heated in PhMe; 4-tert-butyl-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-2,2'-bipyrimidin-4-yl]benzenesulfonamide was added to give pyridine-2-carbaminic acid, 2-[6-(4-tert-butylphenylsulfonylamino)-5-(2-methoxyphenoxy)-2,2'-bipyrimidin-4-yl]oxyethyl ester. The latter at 30 mg/kg orally in rats gave a 30% reduction in average arterial blood pressure.

IT 167402-12-2P 167402-14-4P 167402-15-5P

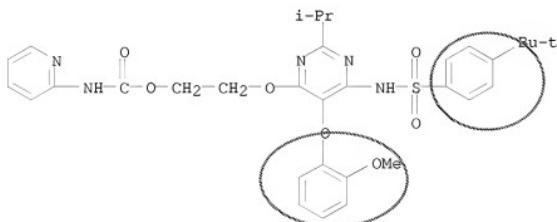
167402-60-0P 167402-62-2P 167402-63-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of sulfonylaminopyrimidines as endothelin antagonists)

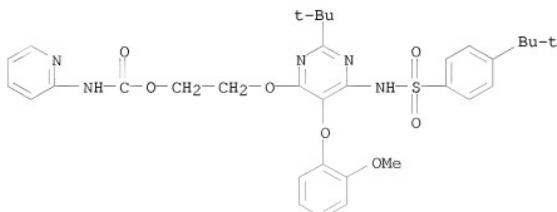
RN 167402-12-2 CAPLUS

CN Carbamic acid, 2-pyridinyl-, 2-[(6-[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino)-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]oxyethyl ester (9CI) (CA INDEX NAME)



RN 167402-14-4 CAPLUS

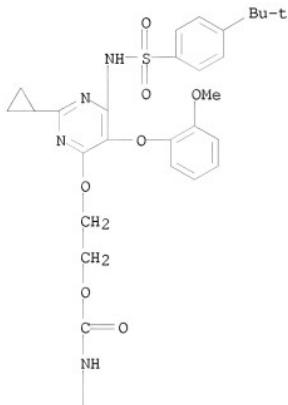
CN Carbamic acid, 2-pyridinyl-, 2-[(2-(1,1-dimethylethyl)-6-[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino)-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxyethyl ester (9CI) (CA INDEX NAME)



RN 167402-15-5 CAPLUS

CN Carbamic acid, 2-pyridinyl-, 2-[[2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxylethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

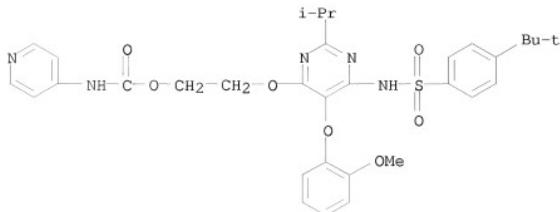


PAGE 2-A



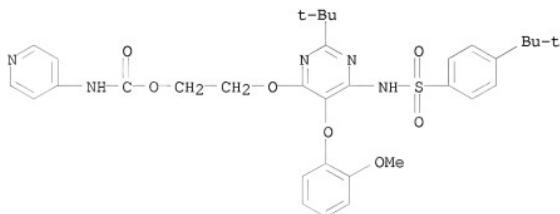
RN 167402-60-0 CAPLUS

CN Carbamic acid, 4-pyridinyl-, 2-[[6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]oxylethyl ester (9CI) (CA INDEX NAME)



RN 167402-62-2 CAPLUS

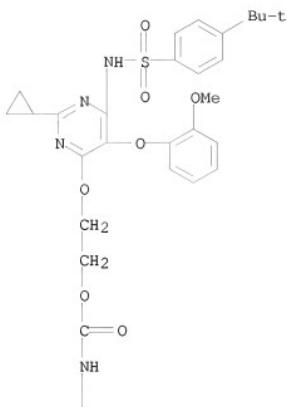
CN Carbamic acid, 4-pyridinyl-, 2-[(2-(1,1-dimethylethyl)-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



RN 167402-63-3 CAPLUS

CN Carbamic acid, 4-pyridinyl-, 2-[(2-cyclopropyl-6-[[[4-(1,1-dimethylethyl)phenyl]sulfonyl]amino]-5-(2-methoxyphenoxy)-4-pyrimidinyl]oxy]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



OSC.G 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (22 CITINGS)

L10 ANSWER 47 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1994:217711 CAPLUS  
 DN 120:217711  
 OREF 120:38669a,38672a  
 TI Preparation of pyrimidinylarylsulfonamides and analogs for treatment of circulatory disorders  
 IN Burri, Kaspar; Clozel, Martine; Fischli, Walter; Hirth, Georges; Loeffler, Bernd Michael; Ramuz, Henri  
 PA F. Hoffmann-La Roche & Co. AG, Switz.  
 SO Can. Pat. Appl., '73 pp.  
 CODEN: CPXXEB

DT Patent  
 LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CA 2071193	A1	19921214	CA 1992-2071193	19920612
CA 2071193	C	19980825		
RU 2086544	C1	19970810	RU 1992-5011139	19920131
EP 526708	A1	19930210	EP 1992-109431	19920604
EP 526708	B1	20001018		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
AT 197044	T	20001115	AT 1992-109431	19920604
ES 2152222	T3	20010201	ES 1992-109431	19920604
PT 526708	E	20010430	PT 1992-109431	19920604
ZA 9204126	A	19930224	ZA 1992-4126	19920605
AU 9218121	A	19921217	AU 1992-18121	19920609
AU 653604	B2	19941006		
US 5292740	A	19940308	US 1992-896015	19920609
IL 102138	A	19960912	IL 1992-102138	19920609
HU 63152	A2	19930728	HU 1992-1930	19920610
HU 221203	B1	20020828		
JP 05222003	A	19930831	JP 1992-174993	19920610
JP 07030042	B	19950405		
RO 111268	B3	19960830	RO 1992-780	19920611
NO 9202323	A	19921214	NO 1992-2323	19920612
NO 303826	B1	19980907		
CZ 281434	B6	19960911	CZ 1992-1804	19920612
SK 279006	B6	19980506	SK 1992-1804	19920612
KR 235507	B1	19991215	KR 1992-10205	19920612
FI 112216	B1	20031114	FI 1992-2746	19920612
BR 9202219	A	19930202	BR 1992-2219	19920615
GR 3035162	T3	20010430	GR 2000-402849	20001228
PRAI CH 1991-1760	A	19910613		
CH 1992-1516	A	19920512		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 120:217711

AB Title compds. I (R1 = H, alkyl, alkoxy, alkylthio, halo, F3C; R2 = H, halo, alkoxy, F3C, RaO2CCH2O wherein Ra = H, alkyl; R3 = H, halo, alkyl, alkylthio, F3C, cycloalkyl, alkoxy, F3CO; R2R3 = butadienyl, OCH2O, O(CH2)2O, OCMe2O; R4 = H, alkyl, cycloalkyl, F3C, alkoxy, alkyl, H2N, HOCH2CH(OMe)CH2O, etc.; R5 = H, alkyl, alkanoyl, Bz, heterocyclylcarbonyl, Me, tetrahydropyran-2-yl; R6-R9 = H, halo, F3C, alkyl, alkoxy, alkylthio, HO, HOCH2, NC, HO2C, HCO, MeOS, MeSO2, etc.; R7R6, R7R8 = butadienyl, OCH2O, etc.; Z = O, S, CH2CH2, CH:CH2, CO, R10CHO, R10CHR wherein R10 = H, alkyl; X, Y = O, S, NH; Rb = Ra; n = 1-3) and salts thereof, active in treatment of circulatory disorders such as hypertension, ischemia,

vasospasms and angina pectoris, are prepared P-tert-butyl-N-[6-chloro-5-(o-methoxyphenoxy)-4-pyrimidinyl]benzenesulfonamide (preparation starting from guaiacol and dimethyl chloromalonate given) were added to HOCH<sub>2</sub>CO<sub>2</sub>Na to give the 6-(2-hydroxyethoxy) derivative which in EtOH was treated with EtONa to give title compound II as the Na salt. II at 10 mg/kg i.v. showed 13.4% reduction in renal perfusion in rats vs. 43% for controls, and effectively inhibited endothelin-induced contractions in rat aortal rings. Pharmaceutical formulations comprising I are given.

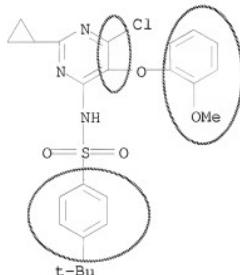
IT 150727-73-4P 150727-75-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of circulatory agents)

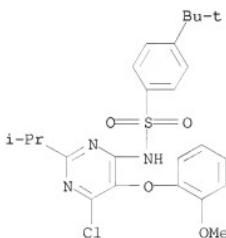
RN 150727-73-4 CAPLUS

CN Benzenesulfonamide, N-[6-chloro-2-cyclopropyl-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 150727-75-6 CAPLUS

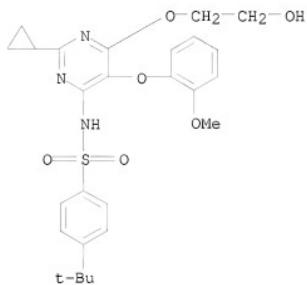
CN Benzenesulfonamide, N-[6-chloro-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



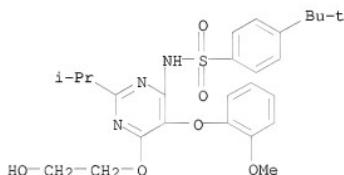
IT 150726-47-9P 150726-49-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as circulatory agent)  
 RN 150726-47-9 CAPLUS  
 CN Benzenesulfonamide, N-[2-cyclopropyl-6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-4-pyrimidinyl]-4-(1,1-dimethylethyl)- (CA INDEX NAME)



RN 150726-49-1 CAPLUS  
 CN Benzenesulfonamide, 4-(1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)-2-(1-methylethyl)-4-pyrimidinyl]- (CA INDEX NAME)

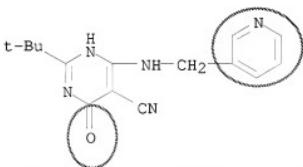


OSC.G 53 THERE ARE 53 CAPLUS RECORDS THAT CITE THIS RECORD (66 CITINGS)

L10 ANSWER 48 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1994:566 CAPLUS  
 DN 120:566  
 OREF 120:135a,138a  
 TI Aminopyrimidine derivatives as antiviral agents for respiratory syncytial virus  
 IN Hsu, Kuo Hom L.; Teller, Daniel M.; Davis, Alan R.; Lubeck, Michael D.;  
 Bagli, Jehan F.  
 PA American Home Products Corp., USA  
 SO U.S., 5 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5256668	A	19931026	US 1993-32065	19930317
PRAI US 1993-32065		19930317		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OS MARPAT 120:566  
 AB Aminopyrimidine derivs. (Markush structure given) are used as antiviral agents for treatment of infection with respiratory syncytial virus (RSV). The ED50 and TD50 of 5-fluoro-2-methyl-6-[{(3-pyridinylmethyl)amino]-4-(1H)pyrimidone against RSV was 0.05 and >16, resp. as compared with 50, and 100 µg/mL, for amantadine as control.  
 IT 151751-97-2  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
 (virucide, for treatment of respiratory syncytial virus infection)  
 RN 151751-97-2 CAPLUS  
 CN 5-Pyrimidinecarbonitrile, 2-(1,1-dimethylethyl)-1,6-dihydro-6-oxo-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 49 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1993:38944 CAPLUS

DN 118:38944

OREF 118:7103a,7106a

TI Preparation of aralkylaminopyrimidines as bactericides

IN Fujii, Katsutoshi; Fukuda, Yasuhisa; Yamanaka, Yoshinori

PA Ube Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04235976	A	19920825	JP 1991-73547	19910118
JP 2762430	B2	19980604		

PRAI JP 1991-73547

OS CASREACT 118:38944; MARPAT 118:38944

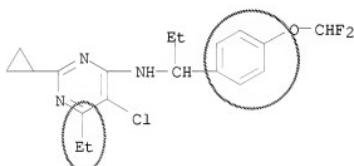
AB The title compds. I (R1 = H, halo, alkyl; R2 = halo, alkyl; R1R2 = (S-containing) (un)saturated 5- or 6-membered ring; R3 = H, (cyclo)alkyl, alkylthio, (alkyl-substituted) amino; R4 = (halo)alkyl, cycloalkyl; R5 = H, halo; R6 = H, halo, alkyl, (halo)alkoxy; n = 1, 2), useful as bactericides (no data), are prepared by treating pyrimidines II (X = eliminating group) with aralkylamines III in alc. solvents. Refluxing a mixture of II (R1 = X = Cl, R2 = Me, R3 = H), dl-a-ethyl-4-difluoromethoxybenzylamine, and Et3N in EtOH for 7 h gave 90% 5-chloro-6-methyl-4-(a-ethyl-4-difluoromethoxybenzylamino)pyrimidine.

IT 144991-98-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as bactericide)

RN 144991-98-0 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-N-[1-[4-(difluoromethoxy)phenyl]propyl]-6-ethyl- (CA INDEX NAME)



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L10 ANSWER 50 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1992:407945 CAPLUS  
 DN 117:7945  
 OREF 117:1607a,1610a  
 TI (Naphthylalkylamino)pyrimidine derivatives, process for their preparation and pesticides containing them  
 IN Kristiansen, Odd; Zondler, Helmut; Mueller, Urs  
 PA Ciba-Geigy A.-G., Switz.  
 SO Eur. Pat. Appl., 66 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 470600	A1	19920212	EP 1991-113282	19910807
	EP 470600	B1	19970507		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	CA 2048713	A1	19920211	CA 1991-2048713	19910808
	IL 99122	A	19970218	IL 1991-99122	19910808
	AU 9181762	A	19920213	AU 1991-81762	19910809
	AU 647163	B2	19940317		
	HU 58300	A2	19920228	HU 1991-2666	19910809
	ZA 9106297	A	19920429	ZA 1991-6297	19910809
	BR 9103426	A	19920519	BR 1991-3426	19910809
	JP 04230670	A	19920819	JP 1991-225025	19910809
	CZ 279334	B6	19950412	CZ 1991-2470	19910809
	PL 169439	B1	19960731	PL 1991-291383	19910809
	CN 1058776	A	19920219	CN 1991-105501	19910810
	US 5468751	A	19951121	US 1993-126154	19930923
PRAI	CH 1990-2603	A	19900810		
	CH 1991-390	A	19910208		
	US 1991-741716	B3	19910807		
	US 1992-910939	B1	19920719		
	US 1993-15079	B1	19930208		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 117:7945

AB Title compds. I [R1 = H, (substituted) C1-5 alkyl, (halo)-C2-7 alkenyl, C3-7 cycloalkyl, halo, C2-6 alkynyl; R2 = H, HO, (substituted) C1-5 alkyl, C1-4 alkoxy, halo, O2N, NC, H2N, C1-4 alkyl-S(O)p wherein p = 0-2, R3NH, R3R9N, R10R9C1N wherein R3 = H, C1-5 alkyl, PhCH2, R6CO, R7S, wherein R9 = C1-5 alkyl, R10 = H, C1-5 alkyl, R6 = C1-5 alkyl, (substituted) Ph, R7 = (substituted) Ph, (substituted) PhCH2, (substituted) C1-5 alkyl; R4, R8 = H, (substituted) C1-3 alkyl, C3-7 cycloalkyl; R5 = halo, C1-3 alkyl, C1-3 alkoxy, C1-3 alkylthio, etc.; R13 = H, (substituted) C1-4 alkyl, (C1-3 alkyl)N, etc.; m, n = 0-3]. To a solution of 4,5-dichloro-6-ethylpyrimidine in BuOH were added 1- $\beta$ -naphthylethylamine and Et3N to give after workup 4-(1- $\beta$ -naphthylethylamino)-5-chloro-6-ethylpyrimidine (II).

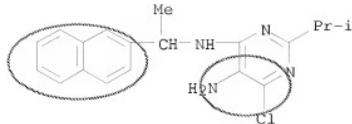
II was effective in controlling Pythium ultimum on sugar beet and corn.

IT 141602-00-8P 141602-04-2P 141602-16-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses (preparation of, as pesticide))

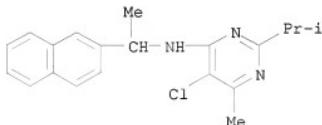
RN 141602-00-8 CAPLUS

CN 4,5-Pyrimidinediamine, 6-chloro-2-(1-methylethyl)-N4-[1-(2-naphthalenyl)ethyl]- (CA INDEX NAME)



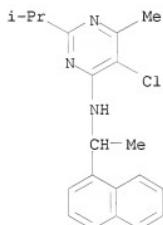
RN 141602-04-2 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-6-methyl-2-(1-methylethyl)-N-[1-(2-naphthalenyl)ethyl]- (CA INDEX NAME)



RN 141602-16-6 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-6-methyl-2-(1-methylethyl)-N-[1-(1-naphthalenyl)ethyl]- (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L10 ANSWER 51 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1992:6576 CAPLUS  
 DN 116:6576

OREF 116:1307a,1310a  
 TI Preparation of N-(2,6-dinitro-3-chloro-4-trifluoromethylphenyl)-4-amino-6-fluoropyrimidines as agrochemical fungicides

IN Zondler, Helmut; Meyer, Alfred; Riebli, Peter; Hubele, Adolf  
 PA Ciba-Geigy A.-G., Switz.  
 SO Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 445074 R: AT, BE, CH, CA 2036976 JP 04211668 BR 9100774	A1 A1 A A	19910904 19910828 19920803 19911029	EP 1991-810111 CA 1991-2036976 JP 1991-53294 BR 1991-774	19910220 19910225 19910225 19910226

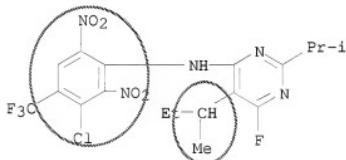
PRAI CH 1990-628  
 OS MARPAT 116:6576

AB The title compds. (I; R = substituted Ph group Q; R1, R2 = H, alkyl, cyclopropyl) (II) were prepared. Thus, I (R = H, R1 = R2 = Et) was condensed with QCl to give II (R1 = R2 = Et) which gave 90-100% control of Cercospora arachidicola on peanut plants when sprayed at 0.006% 48 h prior to inoculation.

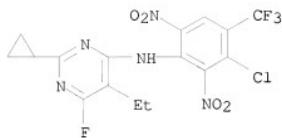
IT 137783-39-2P 137783-48-3P 137783-52-9P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses (preparation of, as agrochem. fungicide)

RN 137783-39-2 CAPLUS

CN 4-Pyrimidinamine, N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-6-fluoro-2-(1-methylethyl)-5-(1-methylpropyl)- (CA INDEX NAME)

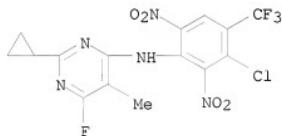


RN 137783-48-3 CAPLUS  
 CN 4-Pyrimidinamine, N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-2-cyclopropyl-5-ethyl-6-fluoro- (CA INDEX NAME)



RN 137783-52-9 CAPLUS

CN 4-Pyrimidinamine, N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-2-cyclopropyl-6-fluoro-5-methyl- (CA INDEX NAME)



L10 ANSWER 52 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1991:247303 CAPLUS

DN 114:247303

OREF 114:41761a,41764a

TI Preparation of aminopyrimidine derivatives as pesticides and fungicides

IN Obata, Tokio; Fujii, Katsutoshi; Narita, Isamu; Shikita, Shoji

PA Ube Industries, Ltd., Japan

SO Eur. Pat. Appl., 41 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 411634	A2	19910206	EP 1990-114864	19900802
	EP 411634	A3	19910731		
	R: DE, FR, GB, IT				
	JP 03063265	A	19910319	JP 1989-199210	19890802
	JP 03127789	A	19910530	JP 1989-262913	19891011
	JP 04026681	A	19920129	JP 1990-126956	19900518
	US 5124333	A	19920623	US 1990-558798	19900726
PRAI	JP 1989-199210	A	19890802		
	JP 1989-262913	A	19891011		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

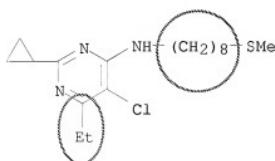
OS MARPAT 114:247303

AB Aminopyrimidine derivs. I [R1 = H, C1-4 alkyl, halo, C3-6 cycloalkyl; R2, R3 = halo, C1-4 alkyl, R2R3 = (substituted) 5- or 6-membered ring residue containing optional O or S atom; R4 = H, CONR6R7 wherein R6R7 = heterocyclyl residue containing addnl. N atom; R5 = R9S(O)n(CH2)mCHR8 or R9S(O)n(CH2)p wherein R8 = H, C1-4 alkyl, C3-6 cycloalkyl; R9 = C3-5 alkenyl, alkynyl, (substituted) Ph, etc.; m = 1-10, n = 0, 1, 2; p = 4-15], useful as insecticides, acaricides, nematocides, and fungicides, are prepared. A mixture of mercapto compound II (R = H) 0.80, PhCHMeBr 0.58, and K2CO3 0.55 g in DMF was heated at 100° to give 0.85 g thioether II (R = PhCHMe), which showed 100% control of brown rice planthoppers and two-spotted spider mites at 300 ppm. Also prepared were 97 addnl. I. Fungicidal activity against barley powdery mildew, wheat rust, and rice blast were also given.

IT 134102-74-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as pesticide and fungicide)

RN 134102-74-2 CAPLUS

CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-ethyl-N-[8-(methylthio)octyl]-  
(CA INDEX NAME)

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L10 ANSWER 53 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1990:612005 CAPLUS  
 DN 113:212005  
 OREF 113:35831a,35834a  
 TI Preparation of 4-(benzylamino)pyrimidines as pesticides  
 IN Fujii, Katsutoshi; Tanaka, Toshinobu; Fukuda, Yasuhisa  
 PA Ube Industries, Ltd., Japan  
 SO Eur. Pat. Appl., 35 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 370704	A2	19900530	EP 1989-311917	19891116
	EP 370704	A3	19901227		
	EP 370704	B1	19950201		
	R: DE, ES, FR, GB, IT, NL				
	JP 03007267	A	19910114	JP 1989-199207	19890802
	JP 07051565	B	19950605		
	JP 03163066	A	19910715	JP 1989-292381	19891113
	JP 07091277	B	19951004		
	US 5141941	A	19920825	US 1989-437341	19891115
	ES 2066864	T3	19950316	ES 1989-311917	19891116
PRAI	JP 1988-292444	A	19881121		
	JP 1989-62069	A	19890316		
	JP 1989-199207	A	19890802		
	JP 1989-201245	A	19890804		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 113:212005

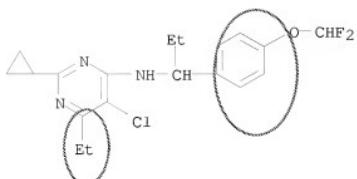
AB The title compds. {I; R1 = H, halo(alkyl), alkanoyl, NO<sub>2</sub>, cyano, 1,3-dioxolan-2-yl; R2, R3 = halo, alkyl; R2R3 = atoms to complete an unsatd. 5- or 6-membered (S-containing) ring; R4 = H, halo, (cyclo)alkyl, alkoxy, alkylthio, amino; R5 = H, (cyclo)alkyl, (halo)alkoxy; n = 1, 2; Q = CF<sub>2</sub>, Q1; Z = C, N], were prepared Thus, KOH and Me<sub>2</sub>SO were stirred 30 min at 100°, the mixture was cooled to 50° and 5-chloro-6-ethyl-4-(2-ethyl-4-hydroxybenzylamino)pyrimidine was added. After stirring for 30 min, C6F<sub>6</sub> was added and the mixture was stirred 8 h at 70° to give II. Several I as 0.01% sprays gave complete control of wheat brown rust on young wheat plants.

IT 144991-98-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as pesticide)

RN 144991-98-0 CAPLUS

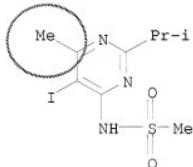
CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-N-[1-[4-(difluoromethoxy)phenyl]propyl]-6-ethyl- (CA INDEX NAME)



OSC.G 14

THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L10 ANSWER 54 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1990:459080 CAPLUS  
 DN 113:59080  
 OREF 113:9995a,9998a  
 TI Condensed heteroaromatic ring systems. XVI. Synthesis of pyrrolo[2,3-d]pyrimidine derivatives  
 AU Kondo, Yoshinori; Watanabe, Ryo; Sakamoto, Takao; Yamanaka, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
 SO Chemical & Pharmaceutical Bulletin (1989), 37(11), 2933-6  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English  
 OS CASREACT 113:59080  
 AB The synthesis of pyrrolo[2,3-d]pyrimidine derivs. was accomplished by either the Pd-catalyzed reaction of terminal alkynes with N-(5-halo-4-pyrimidinyl)methanesulfonamides [prepared by the nucleophilic substitution of 4-chloro-5-halopyrimidines with MeSO<sub>2</sub>NH<sub>2</sub>] or by the photocyclization of 4-azidopyrimidines containing an olefinic function at the 5-position. The synthesis of 4-azidopyrimidine derivs. is also described.  
 IT 128266-69-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and addition-cyclization reaction of, with (trimethylsilyl)acetylene or hexyne)  
 RN 128266-69-3 CAPLUS  
 CN Methanesulfonamide, N-[5-iodo-6-methyl-2-(1-methylethyl)-4-pyrimidinyl]-  
 (CA INDEX NAME)



OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (16 CITINGS)

L10 ANSWER 55 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1990:118842 CAPLUS

DN 112:118842

OREF 112:20139a,20142a

TI Preparation of N-heterocyclylisonicotinamides as plant protective agents

IN Zondler, Helmut; Meyer, Alfred; Eckhardt, Wolfgang; Kunz, Walter

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 43 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 332579	A2	19890913	EP 1989-810160	19890301
	EP 332579	A3	19901017		
	EP 332579	B1	19940810		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	ES 2057172	T3	19941016	ES 1989-810160	19890301
	US 4980355	A	19901225	US 1989-319017	19890303
	DK 8901126	A	19890910	DK 1989-1126	19890308
	AU 8931149	A	19890914	AU 1989-31149	19890308
	AU 622640	B2	19920416		
	BR 8901086	A	19891031	BR 1989-1086	19890308
	ZA 8901767	A	19891129	ZA 1989-1767	19890308
	JP 01272569	A	19891031	JP 1989-57652	19890309
	US 5112840	A	19920512	US 1990-594889	19901009
PRAI	CH 1988-887	A	19880309		
	US 1989-319017	A3	19890303		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 112:118842

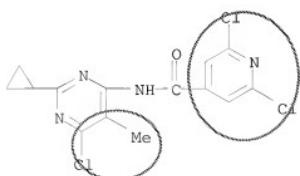
AB The title compds. [II; R = (un)substituted pyridyl, pyrimidinyl, pyridazinyl, pyrazinyl; X = F, Cl, Br, iodo] were prepared. Thus, 2,6-dichloroisonicotinoyl chloride was stirred with imidazole in THF containing Et3N to give 83% N-(2,6-dichloroisonicotinoyl)imidazole which was refluxed 1 h with 2-isopropoxy-4-amino-5-chloropyrimidine in PhMe to give 30.8% title compound II which gave 80-100% protection of cucumber plants against Colletotrichum lagenarium when sprayed at 200 ppm.

IT 125646-72-2P 125646-73-3P

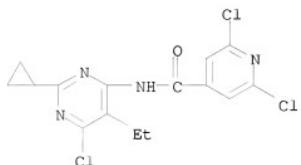
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as plant protective agent)

RN 125646-72-2 CAPLUS

CN 4-Pyridinecarboxamide, 2,6-dichloro-N-(6-chloro-2-cyclopropyl-5-methyl-4-pyrimidinyl)- (CA INDEX NAME)



RN 125646-73-3 CAPLUS  
CN 4-Pyridinecarboxamide, 2,6-dichloro-N-(6-chloro-2-cyclopropyl-5-ethyl-4-pyrimidinyl)- (CA INDEX NAME)

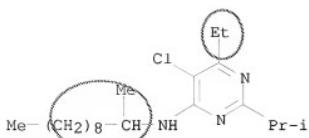


OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

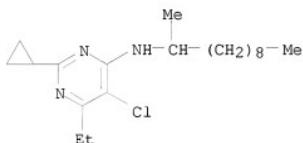
L10 ANSWER 56 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1990:21012 CAPLUS  
 DN 112:21012  
 OREF 112:3691a,3694a  
 TI Preparation of 6-ethyl-4-(alkylamino)pyrimidines as insecticides, acaricides, and fungicides  
 IN Yoshioka, Hirosuke; Obata, Tokio; Fujii, Katsutoshi; Yoshiya, Haruo; Tsutsumiuchi, Kiyoshi; Shikata, Shoji  
 PA Ube Industries, Ltd., Japan; Kenkyusho, Rikagaku  
 SO Eur. Pat. Appl., 36 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 323757	A2	19890712	EP 1988-312414	19881229
EP 323757	A3	19910306		
EP 323757	B1	19950510		
R: DE, FR, GB, IT				
JP 02085263	A	19900326	JP 1988-249816	19881005
JP 07045481	B	19950517		
US 4931455	A	19900605	US 1988-289626	19881222
CA 1337525	C	19951107	CA 1989-587438	19890103
PRAI JP 1988-662	A	19880107		
JP 1988-156684	A	19880627		
JP 1988-249816	A	19881005		

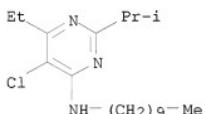
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OS CASREACT 112:21012; MARPAT 112:21012  
 AB The title compds. [I; X = NHCHR3R4; R1 = H, halo, lower (halo)alkyl, C3-6 cycloalkyl, (un)substituted Ph; R2 = halo; R3 = H, lower alkyl, C3-6 cycloalkyl; R4 = (un)substituted straight or branched C1-20 alkyl] or their acid addition salts and insecticides, acaricides and fungicides containing I as active ingredients are prepared by reaction of I (X = eliminatable group) with H2NCHR3R4. Thus, 1-methyloctylamine was added to a solution of 4,5-dichloro-6-ethylpyrimidine and Et3N in PhMe and the mixture was then refluxed 10 h to give I [R1 = H, R2 = Cl, X = NHCHR3R4, R3 = Me, R4 = (CH2)6Me]. One hundred and eight I were prepared Approx. 70 I tested controlled 80-99 or 40-59% common cutworm, diamondback moth, rice planthopper, green rice, rice blast disease, or organic phosphorus agent-resistant green rice leafhopper, two-spotted spider mite, adult female citrus red mite, or citrus red mite egg and were equally or more effective than 4-(nonylamino)quinazoline.  
 IT 124310-21-0P 124310-22-1P 124310-28-7P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as insecticide, acaricide, and fungicide)  
 RN 124310-21-0 CAPLUS  
 CN 4-Pyrimidinamine, 5-chloro-6-ethyl-N-(1-methyldecyl)-2-(1-methylethyl)-(CA INDEX NAME)



RN 124310-22-1 CAPLUS  
CN 4-Pyrimidinamine, 5-chloro-2-cyclopropyl-6-ethyl-N-(1-methyldecyl)- (CA INDEX NAME)

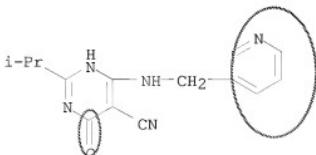


RN 124310-28-7 CAPLUS  
CN 4-Pyrimidinamine, 5-chloro-N-decyl-6-ethyl-2-(1-methylethyl)- (CA INDEX NAME)



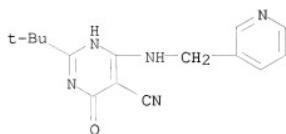
OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)

L10 ANSWER 57 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1988:150414 CAPLUS  
 DN 108:150414  
 OREF 108:24701a,24704a  
 TI Chemistry and positive inotropic effect of pelrinone and related derivatives. A novel class of 2-methylpyrimidones as inotropic agents  
 AU Bagli, Jehan; Bogri, T.; Palameta, B.; Rakhit, S.; Peseckis, S.; McQuillan, J.; Lee, D. K. H.  
 CS Ayerst Lab. Res., Inc., Princeton, NJ, 08543-9990, USA  
 SO Journal of Medicinal Chemistry (1988), 31(4), 814-23  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DT Journal  
 LA English  
 OS CASREACT 108:150414  
 AB Novel pyrimidine derivs. (e.g., I; R = cyano, R1 = 3-pyridylmethyl) were synthesized and evaluated for pos. inotropic activity. Thus, (MeS)2C:(CN)CO2Me cyclocondensed with MeC(:NH)NH2·HCl to give cyano methyl(methythio)dihydropyrimidinone II, which was treated with 3-(aminomethyl)pyridine to give 48% I (R = cyano, R1 = 3-pyridylmethyl). Inotropic and chronotropic effects were determined in vitro in cat papillary muscle and right atrium, resp. Selected compds. were then evaluated in vivo in a dog heart failure model. Changes in ventricular dP/dt, heart rate, and blood pressure were monitored. Several of these agents produced relatively minor changes in heart rate. This class of agents demonstrated a varying degree of vasodilator effects concomitant with increases in ventricular contractility. The most potent analogs, I (R = cyano, R1 = 3-pyridylmethyl; R = Br, R1 = Et, 3-pyridylmethyl), were evaluated orally in conscious dogs with implanted Konisberg pressure transducers, and their effect on left ventricular dP/dt was compared with that of milrinone. Mechanistically, the agents of this novel class appear not to mediate their effect either via  $\beta$ -receptors or inhibition of Na<sup>+</sup>/K<sup>+</sup>-ATPase. A major component of their inotropic effect is mediated by the inhibition of cardiac phosphodiesterase (PDE)-Fr. III. This was clearly demonstrated by I. Compound I (R = Br, R1 = 3-pyridylmethyl) was found to be the most potent inhibitor of PDE-Fr. III from among the compds. tested in this assay. The crystal structure of I (R = cyano, 3-pyridylmethyl)-HB4 is also reported.  
 IT 96823-97-1P 112969-38-7P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and cardiotonic activity of)  
 RN 96823-97-1 CAPLUS  
 CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-(1-methylethyl)-6-oxo-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



RN 112969-38-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 2-(1,1-dimethylethyl)-1,6-dihydro-6-oxo-4-[(3-pyridinylmethyl)amino]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L10 ANSWER 58 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1987:196130 CAPLUS

DN 106:196130

OREF 106:31785a,31788a

TI (Trifluoromethyl)purine derivatives as antitumor agents

IN Obe, Takanori; Sueoka, Hiroyuki; Terasawa, Michio

PA Yoshitomi Pharmaceutical Industries, Ltd., Japan

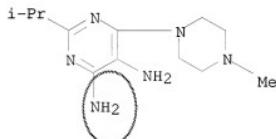
SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62010085 A		19870119	JP 1985-148838	19850705
AB	The title compds. I (R = H, CF <sub>3</sub> , alkyl, etc.; R <sub>1</sub> = H, alkyl; R <sub>2</sub> = alkyl; R <sub>1</sub> R <sub>2</sub> N = heterocyclyl; R <sub>3</sub> = H, alkyl; R <sub>4</sub> = CF <sub>3</sub> , pyridyl, Ph), effective antitumor agents at 0.1-10 mg/kg in adults, are prepared Thus, stirring 4 g pyrimidine derivative II and 1.9 g PhCO <sub>2</sub> H in 50 g polyphosphoric acid at 150° gave 2.9 g I (R = CF <sub>3</sub> , R <sub>1</sub> R <sub>2</sub> N = piperidino, R <sub>3</sub> = H, R <sub>4</sub> = Ph).				
IT	108087-68-9				
	RL: RCT (Reactant); RACT (Reactant or reagent) (cyclocondensation of, with trifluoroacetic acid)				
RN	108087-68-9 CAPLUS				
CN	4,5-Pyrimidinediamine, 2-(1-methylethyl)-6-(4-methyl-1-piperazinyl)- (CA INDEX NAME)				



L10 ANSWER 59 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1985:406358 CAPLUS  
 DN 103:6358  
 OREF 103:1147a,1150a  
 TI Amino-pyrimidine derivatives  
 IN Bagli, Jehan Framoz  
 PA American Home Products Corp., USA  
 SO Eur. Pat. Appl., 50 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 130735	A1	19850109	EP 1984-304158	19840620
	EP 130735	B1	19881102		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4505910	A	19850319	US 1983-509886	19830630
	US 4507304	A	19850326	US 1983-509887	19830630
	ZA 8404476	A	19860226	ZA 1984-4476	19840613
	AT 38328	T	19881115	AT 1984-304158	19840620
	AU 8429710	A	19850103	AU 1984-29710	19840621
	AU 572856	B2	19880519		
	HU 34465	A2	19850328	HU 1984-2441	19840622
	HU 193581	B	19871028		
	DK 8403090	A	19841231	DK 1984-3090	19840625
	JP 60025974	A	19850208	JP 1984-131827	19840625
	CA 1232905	A1	19880216	CA 1984-457551	19840627
	CA 1248104	A2	19890103	CA 1986-505828	19860403
PRAI	US 1983-509886	A	19830630		
	US 1983-509887	A	19830630		
	EP 1984-304158	A	19840620		
	CA 1984-457551	A3	19840627		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 103:6358

AB Title derivs. I [X = O, S, NH; R = alkyl, cycloalkyl, phenylalkyl, CF<sub>3</sub>; R<sub>1</sub> = CN, CONH<sub>2</sub>, NO<sub>2</sub>, SO<sub>2</sub>Me, SO<sub>2</sub>NH<sub>2</sub>; R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub> = H, alkyl; R<sub>7</sub> = H, alkenyl, piperidino, 1-pyrrolidinyl, 1-piperazinyl, furyl, indolyl, thiényl, etc.; m, n = 0, 1, 2] were prepared as cardiotonic agents. Thus, the cyclocondensation of MeC(:NH)NH<sub>2</sub>.HCl with (MeS)C=C(CN)CO<sub>2</sub>Me in DMF containing NaH gave pyrimidine II, which was treated with 3-(aminomethyl)pyridine to give aminopyrimidine III. III at 10-4 M increased contractility by 98% in isolated cat papillary muscle.

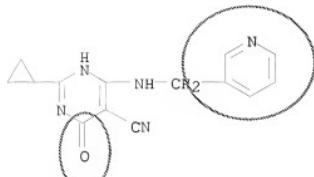
IT 96824-00-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

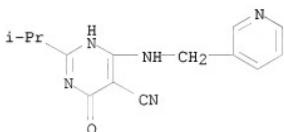
(preparation and cardiotonic activity of)

RN 96824-00-9 CAPLUS

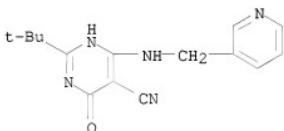
CN 5-Pyrimidinecarbonitrile, 2-cyclopropyl-1,6-dihydro-6-oxo-4-[ (3-pyridinylmethyl)amino]- (CA INDEX NAME)



IT 96823-97-1P 96823-99-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 96823-97-1 CAPLUS  
 CN 5-Pyrimidinecarbonitrile, 1,6-dihydro-2-(1-methylethyl)-6-oxo-4-[(3-pyridinylmethyl)amino]- (CA INDEX NAME)



RN 96823-99-3 CAPLUS  
 CN 5-Pyrimidinecarbonitrile, 2-(1,1-dimethylethyl)-1,6-dihydro-6-oxo-4-[(3-pyridinylmethyl)amino]-, hydrochloride (1:?) (CA INDEX NAME)



● x HCl

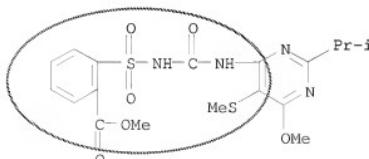
OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

L10 ANSWER 60 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1985:132065 CAPLUS  
 DN 102:132065  
 OREF 102:20731a,20734a  
 TI Herbicidally active and plant growth regulating pyrimidine derivatives.  
 IN Meyer, Willy; Hoegerle, Kari; Thummel, Rudolph G.; Tobler, Hans; Boehner,  
 Beat  
 PA Ciba-Geigy A.-G., Switz.  
 SO Eur. Pat. Appl., 48 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

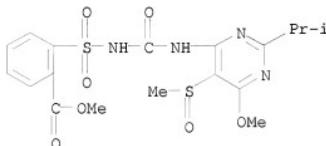
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 126711	A1	19841128	EP 1984-810227	19840510
EP 126711	B1	19890802		
R: BB, CH, DE, FR, GB, IT, LI, NL				
CA 1231098	A1	19880105	CA 1984-454237	19840514
JP 59225169	A	19841218	JP 1984-98461	19840516
US 4741760	A	19880503	US 1986-938674	19861205
PRAI CH 1983-2636	A	19830516		
US 1984-610223	A1	19840514		
US 1985-780547	A1	19850926		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

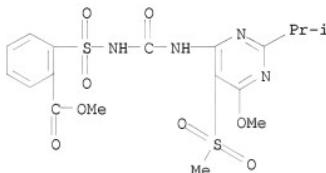
OS MARPAT 102:132065  
 AB Pyrimidinylureas I [R = (un)substituted Ph, furanyl, pyridinyl, pyrrolyl, thiienyl; R1 = H, alkyl, alkenyl; R2 = alkenyl, alkynyl, halo, NO<sub>2</sub>, CHO, amino, cyano, alkoxy carbonyl, RSS(On), (un)substituted alkyl, alkoxy; R3, R4 = H, halo, amino, alkylthio, cyclopropyl, (un)substituted alkyl, alkoxy; R3R4 = atoms required to complete a fused carbocyclic or heterocyclic ring of 4-6 members; R5 = alkyl; X = O, S; n = 0-2] were prepared. Thus, MeCH(CO<sub>2</sub>Me)<sub>2</sub> was cyclocondensed with (H<sub>2</sub>N)<sub>2</sub>CO to give 5-methylbarbituric acid. This was chlorinated with POC<sub>13</sub> and treated with NH<sub>3</sub> to give 4-amino-2,6-dichloro-5-methylpyrimidine which was heated at 120° with NaOMe to give 4-amino-2,6-dimethoxy-5-methylpyrimidine. This was condensed with 2-OCNSO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>Me to give II. I are effective pre-emergent herbicides against, e.g., Nasturtium officinalis at 70.8 ppm. IT 95520-50-6P 95520-51-7P 95520-52-8P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and herbicidal activity of)  
 RN 95520-50-6 CAPLUS  
 CN Benzoic acid, 2-[{[(6-methoxy-2-(1-methylethyl)-5-(methylthio)-4-pyrimidinyl]amino]carbonyl}amino]sulfonyl-, methyl ester (CA INDEX NAME)



RN 95520-51-7 CAPLUS  
 CN Benzoic acid, 2-[[[6-methoxy-2-(1-methylethyl)-5-(methylsulfinyl)-4-pyrimidinyl]amino]carbonyl]amino]sulfonyl]-, methyl ester (CA INDEX NAME)

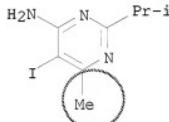


RN 95520-52-8 CAPLUS  
 CN Benzoic acid, 2-[[[6-methoxy-2-(1-methylethyl)-5-(methylsulfonyl)-4-pyrimidinyl]amino]carbonyl]amino]sulfonyl]-, methyl ester (CA INDEX NAME)



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L10 ANSWER 61 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1984:510856 CAPLUS  
 DN 101:110856  
 OREF 101:16933a,16936a  
 TI Studies on pyrimidine derivatives; XXXV. Iodination of 2-aminopyrimidines, 4-aminopyrimidines, and 4-pyrimidinones with iodine chloride in situ  
 AU Sakamoto, Takao; Kondo, Yoshinori; Yamanaka, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Aobayama, 980, Japan  
 SO Synthesis (1984), (3), 252-4  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DT Journal  
 LA English  
 OS CASREACT 101:110856  
 AB Iodination of pyrimidines I (R = H, Me, Me<sub>2</sub>CH, Ph; R<sub>1</sub> = NH<sub>2</sub>; R<sub>2</sub> = H; R<sub>3</sub> = Me) with ICl generated in situ in AcOH gave 42-55% I (R, R<sub>1</sub>, R<sub>3</sub> = same as above; R<sub>2</sub> = I). Similarly, II (R, R<sub>2</sub>, R<sub>3</sub> same as above) gave 51-72% II (R<sub>2</sub> = I), which was chlorinated with POCl<sub>3</sub> to give I (R, R<sub>3</sub> = same, R<sub>1</sub> = Cl, R<sub>2</sub> = I), which was dechlorinated with p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NHNH<sub>2</sub> and Na<sub>2</sub>CO<sub>3</sub> to give 77-87% I (R, R<sub>3</sub> = same, R<sub>1</sub> = H, R<sub>2</sub> = I).  
 IT 83410-19-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 83410-19-9 CAPLUS  
 CN 4-Pyrimidinamine, 5-iodo-6-methyl-2-(1-methylethyl)- (CA INDEX NAME)



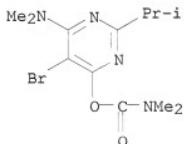
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L10 ANSWER 62 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1983:575787 CAPLUS  
 DN 99:175787  
 OREF 99:26977a,26980a  
 TI 4-N,N-Dimethylcarbamoyloxy-6-aminopyrimidines and their salts and their use as parasiticides  
 IN Hoegerle, Karl; Gsell, Laurenz; Wehrli, Rudolf  
 PA Ciba-Geigy A.-G. , Switz.  
 SO Eur. Pat. Appl., 21 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

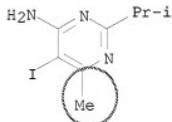
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 80435	A2	19830601	EP 1982-810496	19821119
EP 80435	A3	19840509		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
US 4490375	A	19841225	US 1982-442683	19821118
JP 58092666	A	19830602	JP 1982-204731	19821124
ZA 8208648	A	19830928	ZA 1982-8648	19821124
BR 8206810	A	19831004	BR 1982-6810	19821124
PRAI CH 1981-7537	A	19811125		
CH 1982-6237	A	19821026		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 99:175787  
 AB Insecticidal title compds. I (R<sub>1</sub>, R<sub>2</sub> = C1-5 alkyl, C1-3 haloalkyl, C3-6 cycloalkyl, C2-5 alkenyl, C2-5 alkynyl; R<sub>1</sub>R<sub>2</sub> = C2-5 alkylene; R<sub>3</sub> = halo, C1-5 alkyl, R<sub>4</sub> = C1-5 alkyl; R<sub>3</sub> = H, R<sub>4</sub> = C2-5 alkyl) were prepared. Thus, 2-isopropyl-4-chloro-6-hydroxypyrimidine-HCl was treated with Me<sub>2</sub>NH and then treated with Me<sub>2</sub>NCOCl to give I (R<sub>1</sub> = R<sub>2</sub> = Me, R<sub>3</sub> = H, R<sub>4</sub> = Me<sub>2</sub>CH) (II). At 12.5 ppm II controlled Aphis craccivora by 70-100%.  
 IT 87573-22-6P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and herbicidal activity of)  
 RN 87573-22-6 CAPLUS  
 CN Carbamic acid, dimethyl-, 5-bromo-6-(dimethylamino)-2-(1-methylethyl)-4-pyrimidinyl ester (9CI) (CA INDEX NAME)

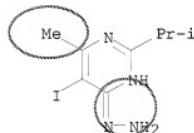


L10 ANSWER 63 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1982:582350 CAPLUS  
 DN 97:182350  
 OREF 97:3059a,30512a  
 TI Studies on pyrimidine derivatives. XXVIII. Synthesis of pyridopyrimidine derivatives by cross-coupling of halopyrimidines with olefins and acetylenes  
 AU Sakamoto, Takao; Kondo, Yoshinori; Yamanaka, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
 SO Chemical & Pharmaceutical Bulletin (1982), 30(7), 2410-16  
 CODEN: CPETAL; ISSN: 0009-2363  
 DT Journal  
 LA English  
 OS CASREACT 97:182350  
 AB Three kinds of pyridopyrimidines were synthesized from appropriate pyrimidine derivs. Cross-coupling of 4-amino-5-iodopyrimidines with  $\alpha,\beta$ -unstd. carboxylic esters followed by ring-closure gave pyrido[2,3-d]pyrimidines. Ammonolysis of 4-(ethoxycarbonyl)-5-(phenylethynyl)pyrimidines and 5-(ethoxycarbonyl)-4-(phenylethynyl)pyrimidines, which were obtained by cross-coupling of halopyrimidines with PhC<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>CO<sub>2</sub>Et, gave pyrido[3,4-d]pyrimidines and pyrido[4,3-d]pyrimidines, resp.  
 IT 83410-19-9P  
 RL RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with Et acrylate)  
 RN 83410-19-9 CAPLUS  
 CN 4-Pyrimidinamine, 5-iodo-6-methyl-2-(1-methylethyl)- (CA INDEX NAME)

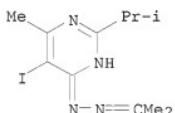


OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L10 ANSWER 64 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1979:152120 CAPLUS  
 DN 90:152120  
 OREF 90:24185a,24188a  
 TI Studies on pyrimidine derivatives. IX. Coupling reaction of mono-substituted acetylenes with iodopyrimidines  
 AU Edo, Kiyoto; Sakamoto, Takao; Yamanaka, Hiroshi  
 CS Pharm. Inst., Tohoku Univ., Sendai, Japan  
 SO Chemical & Pharmaceutical Bulletin (1978), 26(12), 3843-50  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English  
 OS CASREACT 90:152120  
 AB Pyrimidine derivs. containing an acetylenic side chain were prepared by reaction of alkyl or Ph acetylenes with 2-, 4-, and 5-iodopyrimidines in the presence of Pd(PPh<sub>3</sub>)<sub>4</sub>C<sub>2</sub>H<sub>5</sub>O. When HC≡C-CH<sub>2</sub>OH was used, the reaction yield decreased. The reaction proceeded with 2,4-diido- and 4,6-diiodopyrimidines to give dialkynyl derivs. This acetylene coupling reaction was applicable to the preparation of 4-quinazoline derivs.  
 IT 69696-40-8  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and cleavage of hydrazino group)  
 RN 69696-40-8 CAPLUS  
 CN Pyrimidine, 4-hydrazinyl-5-iodo-6-methyl-2-(1-methylethyl)- (CA INDEX NAME)

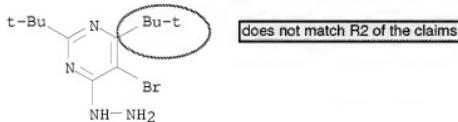


IT 69695-89-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 69695-89-2 CAPLUS  
 CN 2-Propanone, 2-[5-iodo-6-methyl-2-(1-methylethyl)-4-pyrimidinyl]hydrazone  
 (CA INDEX NAME)

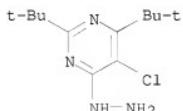


OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L10 ANSWER 65 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1979:72140 CAPLUS  
 DN 90:72140  
 OREF 90:11419a,11422a  
 TI Pyrimidines. Part LXVII. The SN(ANRORC) mechanism. Part XIX. Aspects of the amination of 4-tert-butyl-5-halopyrimidines by potassium amide in liquid ammonia  
 AU Rasmussen, C. A. H.; Van der Plas, H. C.  
 CS Lab. Org. Chem., Agric. Univ. Wageningen, Wageningen, Neth.  
 SO Recueil des Travaux Chimiques des Pays-Bas (1978), 97(11), 288-92  
 CODEN: RTCPA3; ISSN: 0034-186X  
 DT Journal  
 LA English  
 OS CASREACT 90:72140  
 AB The amination of 5-bromo-2,4-di-tert-butylpyrimidine (I), 5-chloro-2,4-di-tert-butylpyrimidine (II) and 4-tert-butyl-5-chloropyrimidine (III) on treatment with KNH<sub>2</sub> in NH<sub>3</sub>(l) was studied. I yielded 6-amino-2,4-di-tert-butylpyrimidine (IV) as major product. In contrast, II and III gave 6-amino-5-chloro-2,4-di-tert-butylpyrimidine and 6-amino-4-tert-butyl-5-chloropyrimidine, resp., as main products, together with minor quantities of IV and 6-amino-4-tert-butylpyrimidine. Choice of halogen and accessibility of C(2) of the pyrimidine nucleus influence the mechanism of the amination. An SN(ANRORC) mechanism is not operative in any of the conversions described.  
 IT 69050-85-7P 69050-86-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and deamination of)  
 RN 69050-85-7 CAPLUS  
 CN Pyrimidine, 5-bromo-2,4-bis(1,1-dimethylethyl)-6-hydrazinyl- (CA INDEX NAME)

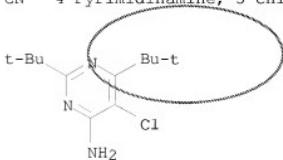


RN 69050-86-8 CAPLUS  
 CN Pyrimidine, 5-chloro-2,4-bis(1,1-dimethylethyl)-6-hydrazinyl- (CA INDEX NAME)



IT 69050-84-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)  
RN 69050-84-6 CAPLUS  
CN 4-Pyrimidinamine, 5-chloro-2,6-bis(1,1-dimethylethyl)- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

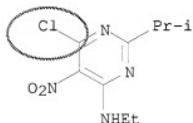
L10 ANSWER 66 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1978:615426 CAPLUS  
 DN 89:215426  
 OREF 89:33481a,33484a  
 TI Nitropyrimidine derivatives  
 IN Fischer, Hanspeter  
 PA Ciba-Geigy A.-G., Switz.  
 SO Pat. Specif. (Aust.), 41 pp.  
 CODEN: ALXXAP

DT Patent  
 LA English

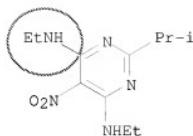
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI AU 492126	B	19780303	AU 1974-68921	19740514
PRAI AU 1974-68921		19740514		
AB Eighty nitropyrimidines I (R1 = C1-6 alkyl, C2-5 alkenyl, C3-6 un- or Me- or Et-substituted cycloalkyl, alkoxy-, cyano-, or hydroxalkyl; R2, R3 = H, C1-4 alkyl; R4 alkyl, C3-4 alkenyl, C3-6 un- or Me- or Et-substituted cycloalkyl; R5 = H, alkyl, haloalkyl, alkoxy, alkyl- or dialkylamino) and their acid addition salts, useful as herbicides and plant growth inhibitors (extensive data tabulated), were prepared by 3 methods. Thus, EtNH <sub>2</sub> (g) was passed into dichloropyrimidine II (R5 = MeS) in alc. at .apprx.35° and the mixture stirred 2 h at room temperature to give I (R1 = R3 = Et, R2 =				

R4 = H, R5 = MeS), which was refluxed 20 h with stirring with NaOMe-MeOH to give I (R1 = R3 = Et, R2 = R4 = H, R5 = MeO).  
 IT 53039-36-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and aminolysis of)  
 RN 53039-36-4 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N-ethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



IT 53038-76-9P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (preparation and herbicidal activity of)  
 RN 53038-76-9 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4,N6-diethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)

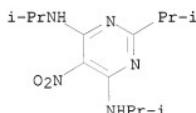


IT 53038-75-8P 53038-77-0P 53038-78-1P  
 53038-79-2P 53038-80-5P 53038-81-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

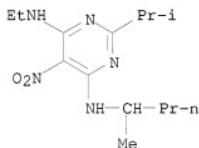
RN 53038-75-8 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6,2-tris(1-methylethyl)-5-nitro- (CA INDEX NAME)



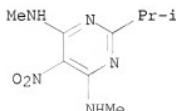
RN 53038-77-0 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53038-78-1 CAPLUS

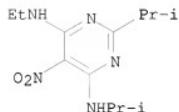
CN 4,6-Pyrimidinediamine, N4,N6-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



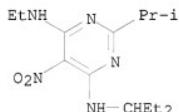
RN 53038-79-2 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6,2-bis(1-methylethyl)-5-nitro- (CA

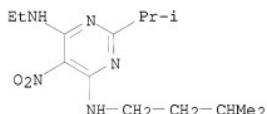
INDEX NAME)



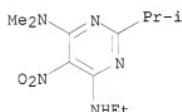
RN 53038-80-5 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



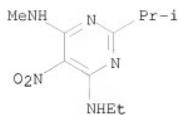
RN 53038-81-6 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(3-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53038-82-7 CAPLUS  
 CN 4,6-Pyrimidinediamine, N6-ethyl-N4,N4-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53100-60-0 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4-ethyl-N6-methyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



L10 ANSWER 67 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN

AN 1976:429570 CAPLUS

DN 85:29570

OREF 85:4793a,4796a

TI 5-Nitropyrimidines for inhibiting plant growth

PA Ciba-Geigy A.-G., Switz.

SO Austrian, 20 pp.

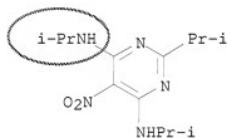
CODEN: AUXXAK

DT Patent

LA German

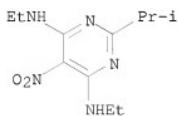
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	AT 327605	B	19760210	AT 1974-3729	19740506
	AT 7403729	A	19750415		
PRAI	AT 1974-3729		19740506		
AB	The title compds. I(R1 = Cl-6 alkyl, C2-5 alkenyl, cycloalkyl, alkoxalkyl, hydroxyalkyl, or cyanoalkyl; R2 and R3 = H or Cl-4 alkyl; R4 = lower alkyl or cycloalkyl; R5 = H, lower alkoxy, alkyl, haloalkyl, alkylamino, dialkylamino, or halogen) are herbicides and plant-growth regulators. Thus 4 kg I(R1 = R4 = Et; R2 = R3 = H; R5 = iso-Pr) (53038-76-9)/ha controlled Cyperus esculentus without damaging alfalfa. Several syntheses are described.				
IT	53038-75-8P		53038-76-9P	53038-77-0P	
	53038-78-1P		53038-79-2P	53038-80-5P	
	53038-82-7P		53100-60-0P		
	RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses (preparation of, as herbicide))				
RN	53038-75-8 CAPLUS				
CN	4,6-Pyrimidinediamine, N4,N6,2-tris(1-methylethyl)-5-nitro- (CA INDEX NAME)				



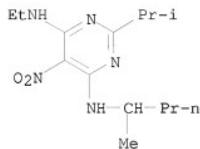
RN 53038-76-9 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6-diethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)

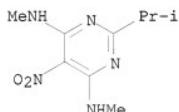


RN 53038-77-0 CAPLUS

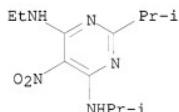
CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



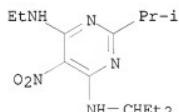
RN 53038-78-1 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4,N6-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



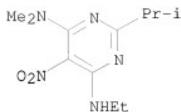
RN 53038-79-2 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4-ethyl-N6,2-bis(1-methylethyl)-5-nitro- (CA INDEX NAME)



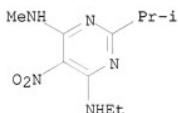
RN 53038-80-5 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



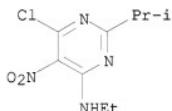
RN 53038-82-7 CAPLUS  
 CN 4,6-Pyrimidinediamine, N6-ethyl-N4,N4-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53100-60-0 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4-ethyl-N6-methyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



IT 53039-36-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with isopropylamine)  
 RN 53039-36-4 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N-ethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



L10 ANSWER 68 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1976:74306 CAPLUS  
 DN 84:74306  
 OREF 84:12199a,12202a  
 TI 5-Nitropyrimidine derivatives and their use as plant growth regulators  
 IN Fischer, Hanspeter  
 PA Ciba-Geigy A.-G., Switz.  
 SO Ger. Offen., 47 pp.  
 CODEN: GWXXBX

DT Patent  
 LA German

FAN.CNT 1

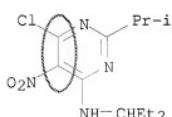
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 2520381	A1	19751120	DE 1975-2520381	19750507
CH 595061	A5	19780131	CH 1974-6426	19740510
FR 2270249	A1	19751205	FR 1975-14416	19750507
US 4014677	A	19770329	US 1975-575308	19750507
CA 1042890	A1	19781121	CA 1975-226551	19750508
IL 47256	A	19790131	IL 1975-47256	19750508
BE 828869	A1	19751110	BE 1975-156175	19750509
NL 7505903	A	19751112	NL 1975-5503	19750509
ZA 7502999	A	19760428	ZA 1975-2999	19750509
AT 7503556	A	19771215	AT 1975-3556	19750509
GB 1501935	A	19780222	GB 1975-19641	19750509
JP 50155624	A	19751216	JP 1975-56686	19750510
AU 7581055	A	19761118	AU 1975-81055	19750512
AU 498132	B2	19790215		
PRAI CH 1974-6426	A	19740510		

AB Pyrimidines I ( $R = Et$ ,  $R_1 = SET$ ,  $SCHMe_2$ ,  $OMe$ ,  $OEt$ ,  $SPr$ ,  $OPr$ ;  $R = SMe$ ,  $R_1 = SET$ ,  $OCHMe_2$ ,  $SCHMe_2$ ,  $OEt$ ,  $OPr$ ;  $R = Me$ ,  $R_1 = OEt$ ;  $R = CF_3$ ,  $R_1 = SET$ ) were prepared by aminating and alkoxylating or alkylthiolating II. Both pre- and post-emergence I had improved herbicidal activity over I ( $R = SMe$ ,  $R_1 = NH_2$ ,  $NHCHMe_2$ ). I ( $R = Et$ ,  $R_1 = SET$ ) was also effective for sucker control on tobacco.

IT 58289-03-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and alkoxylation of)

RN 58289-03-5 CAPLUS

CN 4-Pyrimidinamine, 6-chloro-N-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro-  
 (CA INDEX NAME)



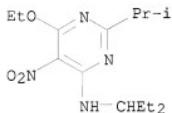
IT 58289-04-6P 58289-48-8P 58289-49-9P

58316-78-2P

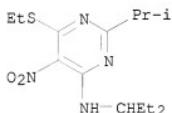
RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 58289-04-6 CAPLUS

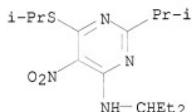
CN 4-Pyrimidinamine, 6-ethoxy-N-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro-  
 (CA INDEX NAME)



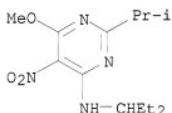
RN 58289-48-8 CAPLUS  
 CN 4-Pyrimidinamine, N-(1-ethylpropyl)-6-(ethylthio)-2-(1-methylethyl)-5-nitro-  
 (CA INDEX NAME)



RN 58289-49-9 CAPLUS  
 CN 4-Pyrimidinamine, N-(1-ethylpropyl)-2-(1-methylethyl)-6-[(1-  
 methylethyl)thio]-5-nitro- (CA INDEX NAME)



RN 58316-78-2 CAPLUS  
 CN 4-Pyrimidinamine, N-(1-ethylpropyl)-6-methoxy-2-(1-methylethyl)-5-nitro-  
 (CA INDEX NAME)



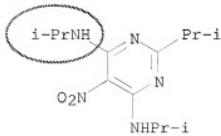
OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L10 ANSWER 69 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1975:27230 CAPLUS  
 DN 82:27230  
 OREF 82:4329a,4332a  
 TI Nitropyrimidine plant growth regulators [herbicides]  
 IN Fischer, Hanspeter  
 PA Ciba-Geigy A.-G.  
 SO Ger. Offen., 44 pp.  
 CODEN: GWXXBX

DT Patent  
 LA German

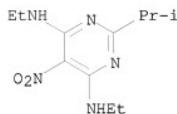
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 2356644	A1	19740522	DE 1973-2356644	19731113
CH 574206	A5	19760415	CH 1972-16728	19721116
US 3948914	A	19760406	US 1973-415209	19731112
CA 1011960	A1	19770614	CA 1973-185680	19731113
BE 807321	A1	19740514	BE 1973-137749	19731114
FR 2206909	A1	19740614	FR 1973-40409	19731114
NL 7315695	A	19740520	NL 1973-15695	19731115
ZA 7308750	A	19740731	ZA 1973-8750	19731115
JP 49081538	A	19740806	JP 1973-128692	19731115
IT 1001780	B	19760430	IT 1973-31377	19731115
GB 1448851	A	19760908	GB 1973-53090	19731115
GB 1448852	A	19760908	GB 1975-8912	19731115
US 4055411	A	19771025	US 1975-641792	19751218
PRAI CH 1972-16728	A	19721116		
US 1973-415209	A3	19731112		
AB 4,6-Dialkylamino-5-nitropyrimidines I (R,R1,R2 and R3 = H, alkyl or alkenyl; R4 = alkyl, CF <sub>3</sub> , Cl or alkylamino) were especially effective as herbicides. For example, 4,6-bis(ethylamino)-5-nitro-2-isopropylpyrimidine (I, R = R2 = Et, R1 = R3 = H, R4 = iso-Pr) [53038-76-9] 4kg/ha, controlled Cyperus esculentus, Digitaria sanguinalis, Amaranthus, Setaria italicica, and Echinochloa crus-galli, with little or no phytotoxicity to culture plants.				
IT 53038-75-8	53038-76-9	53038-77-0		
53038-78-1	53038-79-2	53038-80-5		
53038-81-6	53038-82-7	53100-60-0		
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses) (herbicide)				
RN 53038-75-8	CAPLUS			
CN 4,6-Pyrimidinediamine, N4,N6,2-tris(1-methylethyl)-5-nitro-	(CA INDEX NAME)			



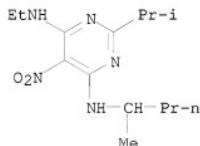
RN 53038-76-9 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6-diethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



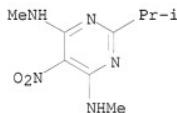
RN 53038-77-0 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



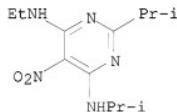
RN 53038-78-1 CAPLUS

CN 4,6-Pyrimidinediamine, N4,N6-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



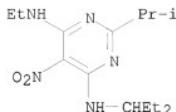
RN 53038-79-2 CAPLUS

CN 4,6-Pyrimidinediamine, N4-ethyl-N6,2-bis(1-methylethyl)-5-nitro- (CA INDEX NAME)

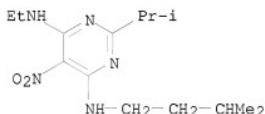


RN 53038-80-5 CAPLUS

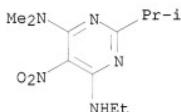
CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(1-ethylpropyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



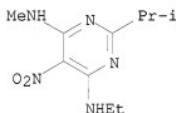
RN 53038-81-6 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4-ethyl-N6-(3-methylbutyl)-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



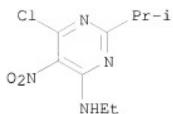
RN 53038-82-7 CAPLUS  
 CN 4,6-Pyrimidinediamine, N6-ethyl-N4,N4-dimethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



RN 53100-60-0 CAPLUS  
 CN 4,6-Pyrimidinediamine, N4-ethyl-N6-methyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



IT 53039-36-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and reaction of with alkylamines)  
 RN 53039-36-4 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-N-ethyl-2-(1-methylethyl)-5-nitro- (CA INDEX NAME)



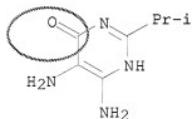
OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L10 ANSWER 70 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1974:96024 CAPLUS  
 DN 80:96024  
 OREF 80:15451a,15454a  
 TI 2-(Cyclo)alkyl-4(3H)-pteridinones  
 IN Liede, Volker; Popelak, Alfred; Thiel, Max; Hardebeck, Klaus; Roesch, Egon  
 PA Boehringer Mannheim G.m.b.H.  
 SO Ger. Offen., 11 pp.  
 CODEN: GWXXBX

DT Patent  
 LA German

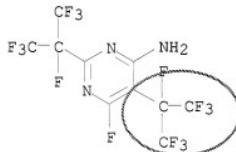
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 2232098	A1	19740117	DE 1972-2232098	19720630
CA 997759	A1	19760928	CA 1973-168667	19730411
US 3895012	A	19750715	US 1973-371210	19730618
FR 2190447	A1	19740201	FR 1973-23093	19730625
DD 106174	A5	19740612	DD 1973-171802	19730625
GB 1373338	A	19741113	GB 1973-30061	19730625
NL 7308926	A	19740102	NL 1973-8926	19730627
ZA 7304373	A	19740626	ZA 1973-4373	19730627
CH 579082	A5	19760831	CH 1973-9398	19730627
JP 49042694	A	19740422	JP 1973-73541	19730629
AT 7305774	A	19750105	AT 1973-5774	19730629
AT 330784	B	19760726		
HU 167717	B	19751225	HU 1973-B01446	19730629
AU 7357624	A	19750109	AU 1973-57624	19730702
AT 7500582	A	19760415	AT 1975-582	19750127
AT 333771	B	19761210		
PRAI DE 1972-2232098	A	19720630		
AT 1973-5774	A	19730629		
AB Nine pteridinones I (R = e.g. Et, Me2CH, Pr, cyclopropyl, or 3-pentyl), useful as diuretics, were manufactured by a) reaction of glyoxal-H2O with the pyrimidines II in H2O at reflux or b) reaction of the pyrazine III with RC(:NH)OH.				
IT 52403-08-4				
RL: RCT (Reactant); RACT (Reactant or reagent) (reaction with glyoxal hydrate)				
RN 52403-08-4 CAPLUS				
CN 4(3H)-Pyrimidinone, 5,6-diamino-2-(1-methylethyl)- (CA INDEX NAME)				



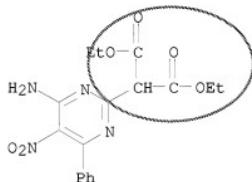
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 71 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1971:551748 CAPLUS  
 DN 75:151748  
 OREF 75:23933a,23936a  
 TI Polyfluoroheterocyclic compounds. XXI. Thermal rearrangement of perfluoropyridazine and perfluoroalkylpyridazines to pyrimidines  
 AU Chambers, R. D.; MacBride, J. A. H.; Musgrave, W. K. R.  
 CS Chem. Dep., Univ. Durham, Durham, UK  
 SO Journal of the Chemical Society [Section] C: Organic (1971), (20), 3384-8  
 CODEN: JSOOAX; ISSN: 0022-4952  
 DT Journal  
 LA English  
 AB Pyrolysis of tetrafluoropyridazine at .apprx.800° gave 50% tetrafluoropyrimidine, 18% 2,4,6-trifluoro-5-(trifluoromethyl)pyrimidine, 5% tetrafluoropyrazine, and 1% hexafluorobenzene. Pyrolysis of 3,6-difluoro-4,5-bis(heptafluoroisopropyl)pyridazine at .apprx.580° gave 35% 4,6-difluoro-2,5-bis(heptafluoroisopropyl)pyrimidine and 2,5-difluoro-3,6-bis(heptafluoroisopropyl)pyrazine. Trapping expts. with NH<sub>3</sub> discounted a nucleophilic rearrangement of a primary pyrolysis product to give the 2,5-disubstituted pyrimidine, and a mechanism involving the formation and sigmatropic rearrangement of intermediate diazenvalenes was suggested.  
 IT 34122-49-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 34122-49-1 CAPLUS  
 CN 4-Pyrimidinamine, 6-fluoro-2,5-bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 72 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1969:501825 CAPLUS  
 DN 71:101825  
 OREF 71:18969a,18972a  
 TI Heterocyclic studies. X. 4-Phenylpteridine and some methyl derivatives  
 AU Clark, Jim; Murdock, Peter N. T.  
 CS Univ. Salford, Salford, UK  
 SO Journal of the Chemical Society [Section] C: Organic (1969), (14), 1883-6  
 CODEN: JSOOAX; ISSN: 0022-4952  
 DT Journal  
 LA English  
 AB Suitable nitration conditions for obtaining two mononitro and two dinitro derivs. of 2,4-dihydroxy-6-phenylpyrimidine are described. The 5-nitro compound was converted into 4-phenylpteridine and its 2- and 7-methyl, 2,7- and 6,7-dimethyl, and 2,6,7-trimethyl derivs. None of the compds. was appreciably hydrated in aqueous solution as the neutral mol. but 4-phenylpteridine and its 2-methyl derivative formed 5,6,7,8-dihydrated cations (I). The compds. containing 6- or 7-methyl groups were unstable as cations and apparently underwent dimerization and oxidation in strongly acidic solns.  
 IT 23766-67-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 23766-67-8 CAPLUS  
 CN Propanedioic acid, 2-(4-amino-5-nitro-6-phenyl-2-pyrimidinyl)-,  
 1,3-diethyl ester (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 73 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1969:87842 CAPLUS  
 DN 70:87842  
 OREF 70:16424h,16425a  
 TI Sulfanilamide derivatives as bactericides  
 PA Geigy, J. R., A.-G.  
 SO Fr., 8 pp.  
 CODEN: FRXXAK  
 DT Patent  
 LA French  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR 1514738	-----	19680223	FR 1967-99070	19670316
CH 472412	-----		CH	
DE 1695012	-----		DE	
GB 1187612	-----		GB	
US 3457278	-----	19690722	US	19670314
US 3499080	-----	19700303	US	19690122
PRAI CH	-----	19660317		

OS MARPAT 70:87842

AB The title compds. (I) (R1 = H, Me, MeO, or cyclopropyl, R2 = MeO, Me, or Cl, and R3 = cyclopropyl or Mes) are prepared. Thus, 17.6 g. Et  $\alpha$ -diazo- $\beta$ -oxocyclo-propanepropionate in 135 ml. MeOH was treated with 1 g. Cu powder and 4 drops BF3 etherate at 60-70°; after 2 hrs. the evolution of N had ended to give Et  $\alpha$ -methoxy- $\beta$ -oxocyclopropane-propionate (II), b0.1 60-1°. Na (2.25 g.) was dissolved in 45 ml. EtOH, 8.75 g. (H2N)2CS and 12.25 g. II were added, and the whole refluxed 7 hrs. to give 2-mercaptop-5-methoxy-6-cyclopropyl-4-pyrimidinol (III), m. 211-13°. III (8 g.) was added to 100 ml. H2O and 10 ml. 25% NH4OH, the whole heated at 70-80°, 24 g. Raney Ni added portionwise, and heating continued 1.5 hrs. at 110-20° to give 5-methoxy-6-cyclopropyl-4-pyrimidinol (IV), m. 120-2°. IV (5.7 g.) 36 ml. POCl3, and 2.6 ml. PhNMe2 was heated 1.5 hrs. at 90-100° to give 4-chloro-5-methoxy-6-cyclopropylpyrimidine (V). A mixture of 10.7 g. Na derivative of sulfanilamide, 40 ml. Me2SO, 4.61 g. V, 0.6 g. Me3N, and 6 ml. HCONMe2 was heated 48 hrs. at 60-70° to give N1-(5-methoxy-6-cyclopropyl-4-pyrimidinyl)sulfanilamide (VI), m. 201-3°. AcNH2 (32.5 g.) and 34.9 g. Na derivative of sulfanilamide were mixed and melted at 160°, the melt cooled to 90°, and 14.6 g. N-(6-cyclopropyl-5-methoxy - 4 - pyrimidinyl) - N,N,N - trimethylammonium chloride (obtained from V and Me3N) added, and the whole stirred 10 min. at 100° to give VI. Et  $\beta$ -oxocyclo-propanepropionate (31.2 g.) was added dropwise at 55° to a solution of 4.6 g. Na in 120 ml. EtOH, 31.2 g. MeI added dropwise, and the mixture worked up to give Et  $\alpha$ -methyl- $\beta$ -oxocyclopropanepro-pionate (VII), b12 90-5°. Treatment of this ester as above gave successively 2-mercaptop-5-methyl-6-cyclopropyl-4-pyrimidinol, m. 232-4°, 5-methyl-6-cyclopropyl-4-pyrimidinol, m. 180-2°, 4-chloro-5-methyl-6-cyclopropylpyrimidine m. 80-2°, and N1-(5-methyl-6-cyclopropyl-4-pyrimidinyl)sulfanilamide, m. 237-9°. Acetanidamine-HCl (5.95 g.) was added to a mixture of 10.7 g. VII and 3 ml. EtOH, 2.52 g. NaOH in 2.5 ml. EtOH added, and the mixture stirred until the NaOH dissolved. The mixture was placed in a H2SO4 desiccator and evacuated one week at 12 mm. The resulting solid was crushed with 2.5 g. Na2CO3 and

2.5 g. NaHCO<sub>3</sub> and the solid extracted for 18 hrs. with C<sub>6</sub>H<sub>6</sub> to give 6-cyclopropyl-2,5-dimethyl-4-pyrimidinol (VIII), m. 218-20°. Treatment of VIII as above gave successively: 4-chloro-6-cyclopropyl-2,5-dimethylpyrimidine (oil), and N-[6-cyclopropyl-2,5-dimethyl-4-pyrimidinyl]sulfanilamide, m. 185-7°. A solution of 15.5 g. O-methylisourea-HCl in 50 ml. MeOH was added slowly to a solution of 6.45 g. Na in 70 ml. MeOH, the temperature being kept

below -5°. VII (17 g.) was added and the whole mixed 3 days at room temperature and 3 hrs. at 70-80° to give

6-cyclopropyl-2-methoxy-5-methyl-4-pyrimidinol (IX), m. 205-7°.

Treatment of IX as above gave successively 4-chloro-6-cyclopropyl-2-methoxy-5-methylpyrimidine, m. 61-2°, and N-[6-cyclopropyl-2-methoxy-5-methyl-4-pyrimidinyl]sulfanilamide, m. 213-14°. 6-Cyclopropyl-4-pyrimidinol (6.8 g.) was dissolved at 80° in 15 ml. AcOH and 0.3 ml. Ac<sub>2</sub>O, the cooled solution (50°) treated with 8.3 g. N-chlorosuccinimide, and the whole stirred 3 hrs. at 60° to give 5-chloro-6-cyclopropyl-4-pyrimidinol (X), m. 218-20°. Treatment of X as above gave successively:

5-cyclopropyl-4,5-dichloropyrimidine, and N-[5-chloro-6-cyclopropyl-4-pyrimidinyl]sulfanilamide, m. 202-3°.

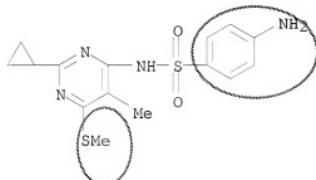
Cyclopropylcarboxamide-HCl (20.85 g.) was dissolved in 60 ml. MeOH and cooled to -5°, a solution of 8.04 g. Na in 81 ml. MeOH added, and the whole treated with 30.6 g. di-Et methylmalonate. The temperature was raised slowly over 2 hrs. to 20°; the mixture was stirred 2 days at 20°, kept 4 days at 20°, and heated 1.5 hrs. at 50-60° to give 2-cyclopropyl-5-methyl-4,6-dihydroxypyrimidine, m. >300°. Subsequent treatment gave 2-cyclopropyl-4,6-dichloro-5-methylpyrimidine, 2-cyclopropyl-4-chloro-5-methyl-6-(methylthio)pyrimidine, m. 49-51°, and N-[2-cyclopropyl-5-methyl-6-(methylthio)-4-pyrimidinyl]-sulfanilamide, m. 229-30°. The title compds. are useful in the treatment of infections by gram-pos. or gram-neg. bacteria.

IT 21721-75-5

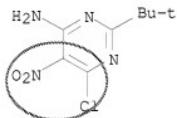
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 21721-75-5 CAPLUS

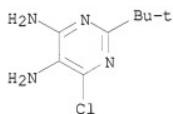
CN Benzenesulfonamide, 4-amino-N-[2-cyclopropyl-5-methyl-6-(methylthio)-4-pyrimidinyl]- (CA INDEX NAME)



L10 ANSWER 74 OF 74 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 1968:114555 CAPLUS  
 DN 68:114555  
 OREF 68:22087a,22090a  
 TI Purine stacking. Effects of alkyl substituents  
 AU Heimkamp, George K.; Kondo, Norman S.  
 CS Univ. of California, Riverside, CA, USA  
 SO Biochimica et Biophysica Acta, Nucleic Acids and Protein Synthesis (1968),  
 157(2), 242-57  
 CODEN: BBNPAS; ISSN: 0005-2787  
 DT Journal  
 LA English  
 AB The association behavior of various alky-substituted purines in aqueous  
 solution was  
 investigated by N.M.R. and vapor pressure osmometry. The data suggested  
 that stacking was highly dependent on the nature and location of the alkyl  
 substituent. Larger alkyl groups enhanced the degree of association, and  
 stacking was highly dependent on the nature and location of the  
 substituent. Differential chemical shifts of the ring protons suggest that  
 the association process became less random as the size of the alkyl group was  
 increased. Results are reported for 2-, 6-, 8-, and 9-tert-butylpurine,  
 8-isopropylpurine, and 9-methyl-, 9-ethyl-, and 9-isopropylpurine.  
 Synthetic procedures are given for the tert-butylpurines and  
 isopropylpurines. 24 references.  
 IT 18202-76-1P 18202-77-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 18202-76-1 CAPLUS  
 CN 4-Pyrimidinamine, 6-chloro-2-(1,1-dimethylethyl)-5-nitro- (CA INDEX NAME)



RN 18202-77-2 CAPLUS  
 CN 4,5-Pyrimidinediamine, 6-chloro-2-(1,1-dimethylethyl)- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	432.94	627.64
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-62.90	-62.90

STN INTERNATIONAL LOGOFF AT 15:46:39 ON 16 JAN 2010